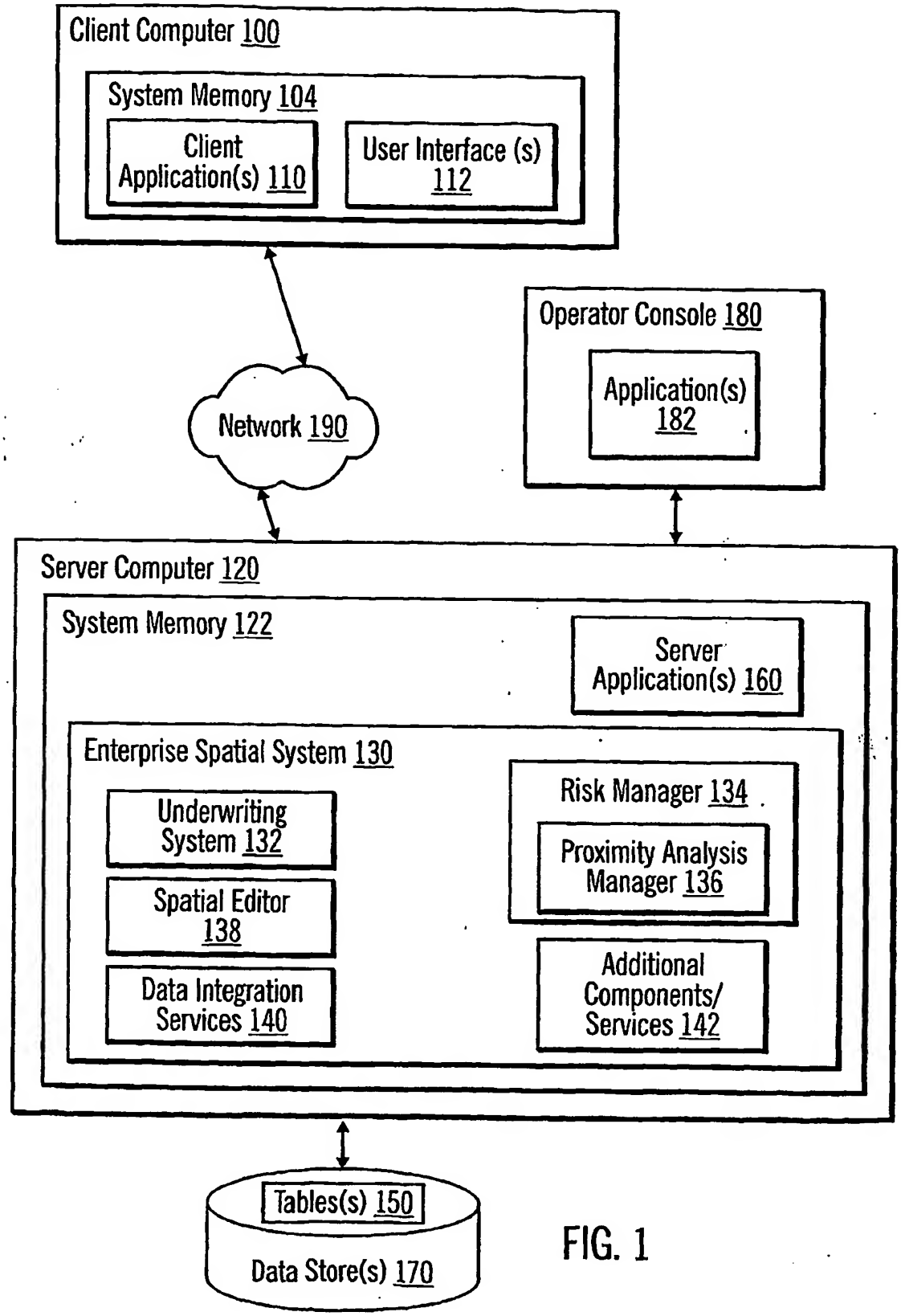

Client Computer 100
System Memory 104
Client Application(s) 110
User Interface (s) 112
Network 190
Operator Console 180
Application(s) 182
Server Computer 120
System Memory 122
Server Application(s) 160
Enterprise Spatial System 130
Underwriting System 132
Spatial Editor 138
Data Integration Services 140
Risk Manager 134
Proximity Analysis Manager 136
Additional Components/ Services 142
Tables(s) 150
Data Store(s) 170

FIG. 1

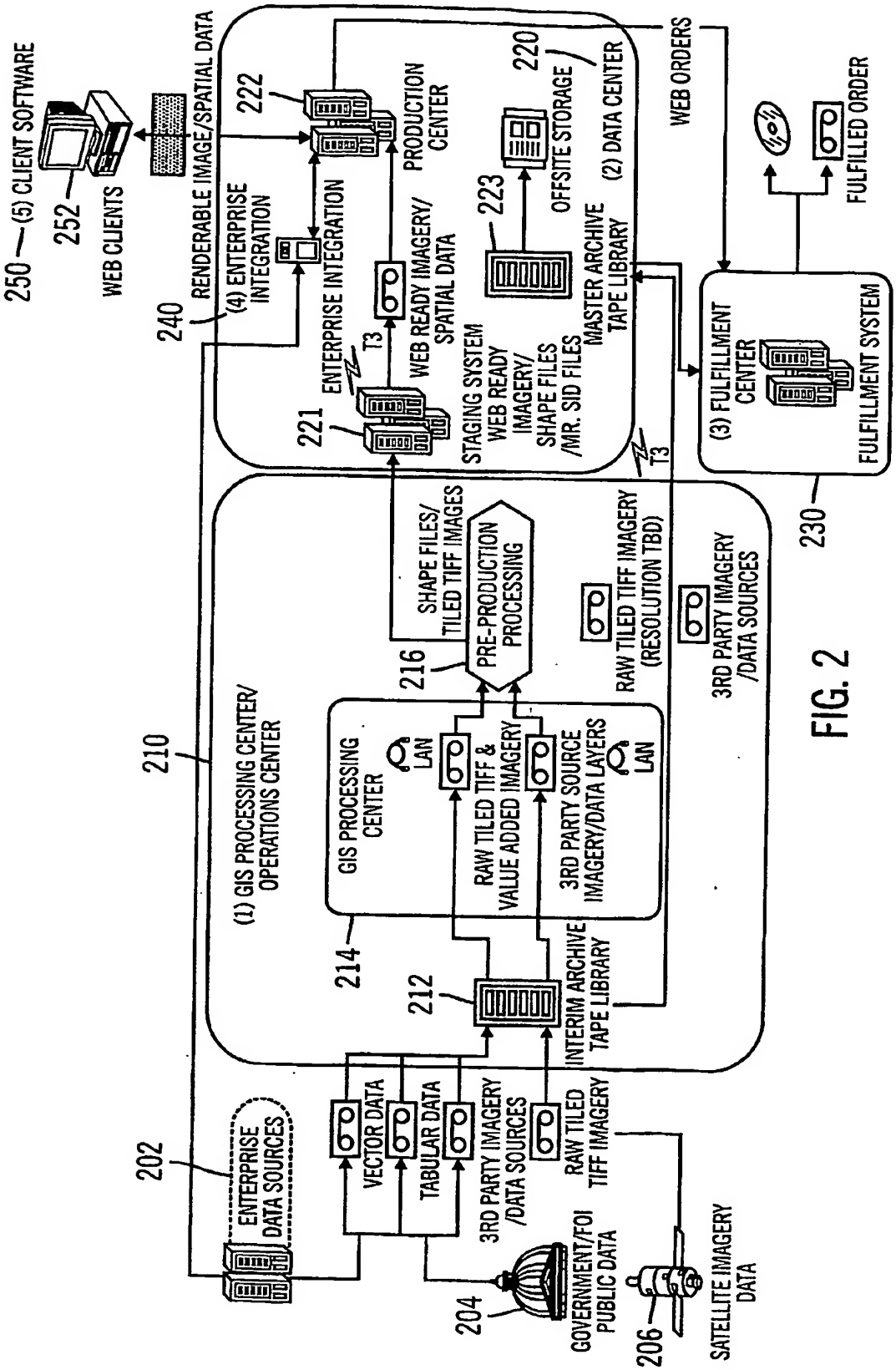

250
(5) CLIENT SOFTWARE
252
WEB CLIENTS
RENDERABLE IMAGE/SPATIAL DATA
240
(4) ENTERPRISE INTEGRATION
222
PRODUCTION CENTER
220
OFFSITE STORAGE
(2) DATA CENTER
WEB ORDERS
FULFILLED ORDER
ENTERPRISE INTEGRATION
T3
WEB READY IMAGERY/ SPATIAL DATA
223
MASTER ARCHIVE TAPE LIBRARY
221
STAGING SYSTEM WEB READY IMAGERY/ SHAPE FILES /MR. SID FILES
T3
(3) FULFILLMENT CENTER
FULFILLMENT SYSTEM
230
SHAPE FILES/ TILED TIFF IMAGES
216
PRE-PRODUCTION PROCESSING
RAW TILED TIFF IMAGERY (RESOLUTION TBD)
3RD PARTY IMAGERY /DATA SOURCES
210
(1) GIS PROCESSING CENTER/ OPERATIONS CENTER
GIS PROCESSING CENTER
LAN
RAW TILED TIFF & VALUE ADDED IMAGERY
3RD PARTY SOURCE IMAGERY/DATA LAYERS
LAN
214
212
INTERIM ARCHIVE TAPE LIBRARY
202
ENTERPRISE DATA SOURCES
VECTOR DATA
TABULAR DATA
3RD PARTY IMAGERY /DATA SOURCES
RAW TILED TIFF IMAGERY
204
GOVERNMENT/FOI PUBLIC DATA
206
SATELLITE IMAGERY DATA

FIG. 2

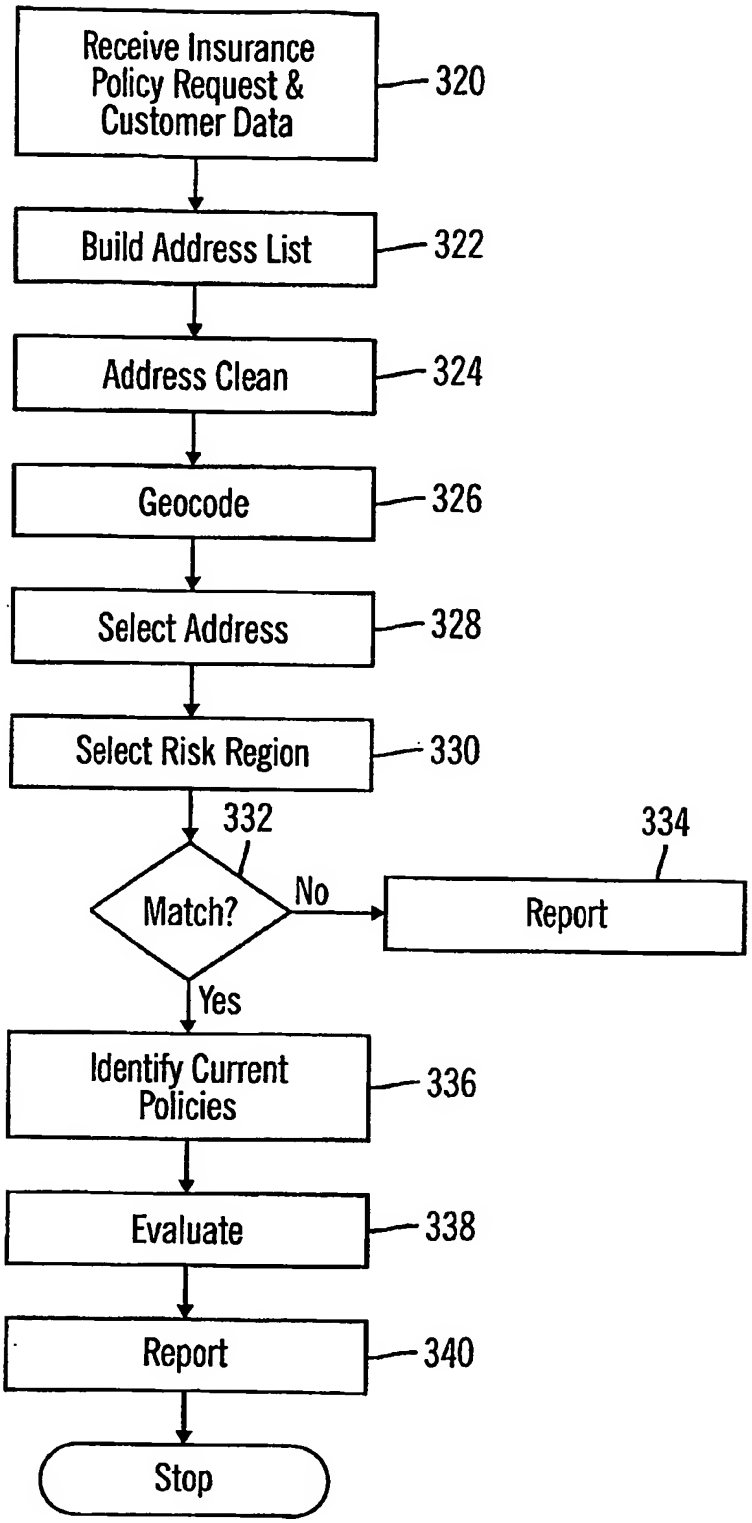

Receive Insurance Policy Request & Customer Data
320
Build Address List
322
Address Clean
324
Geocode
326
Select Address
328
Select Risk Region
330
332
Match?
No
334
Report
Yes
Identify Current Policies
336
Evaluate
338
Report
340
Stop

FIG. 3

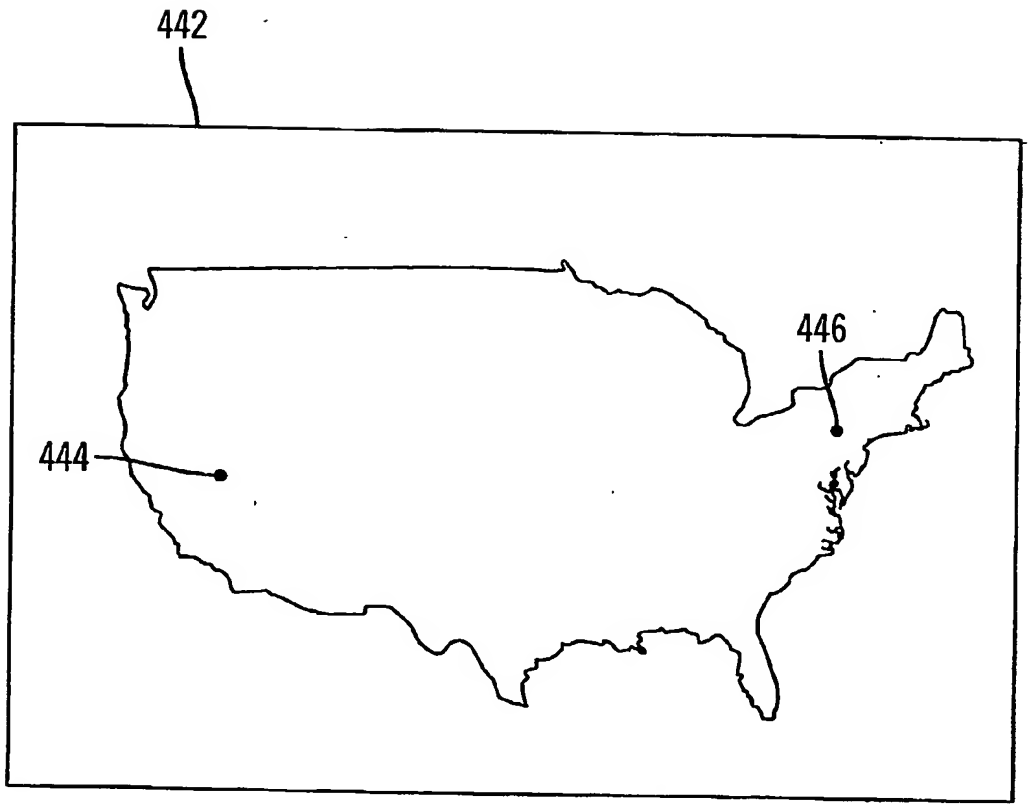


FIG. 4A

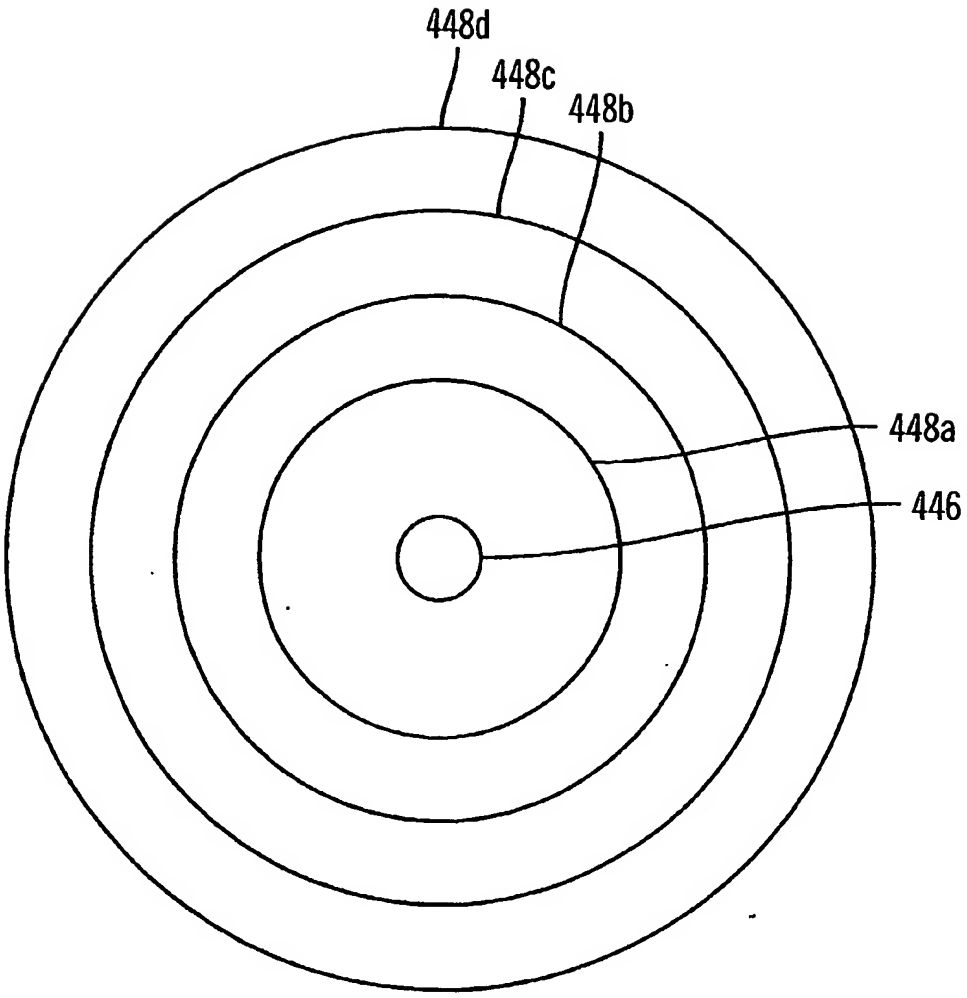


FIG. 4B

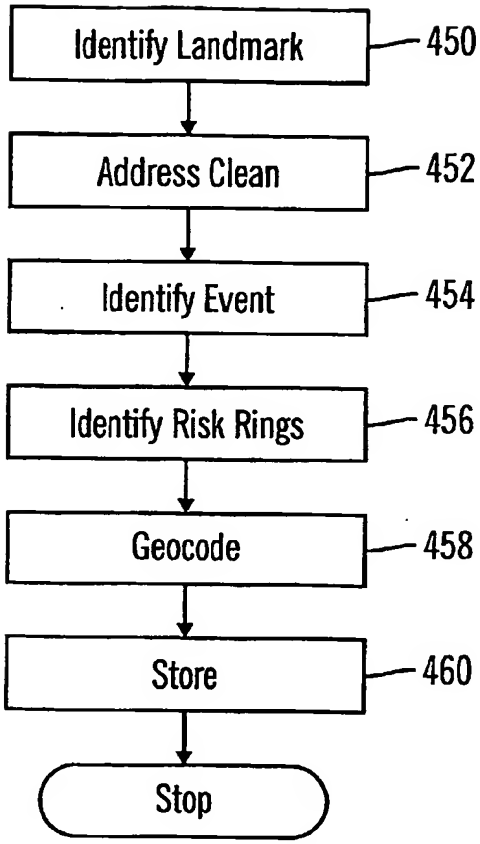

Identify Landmark
450
Address Clean
452
Identify Event
454
Identify Risk Rings
456
Geocode
458
Store
460
Stop

FIG. 4C

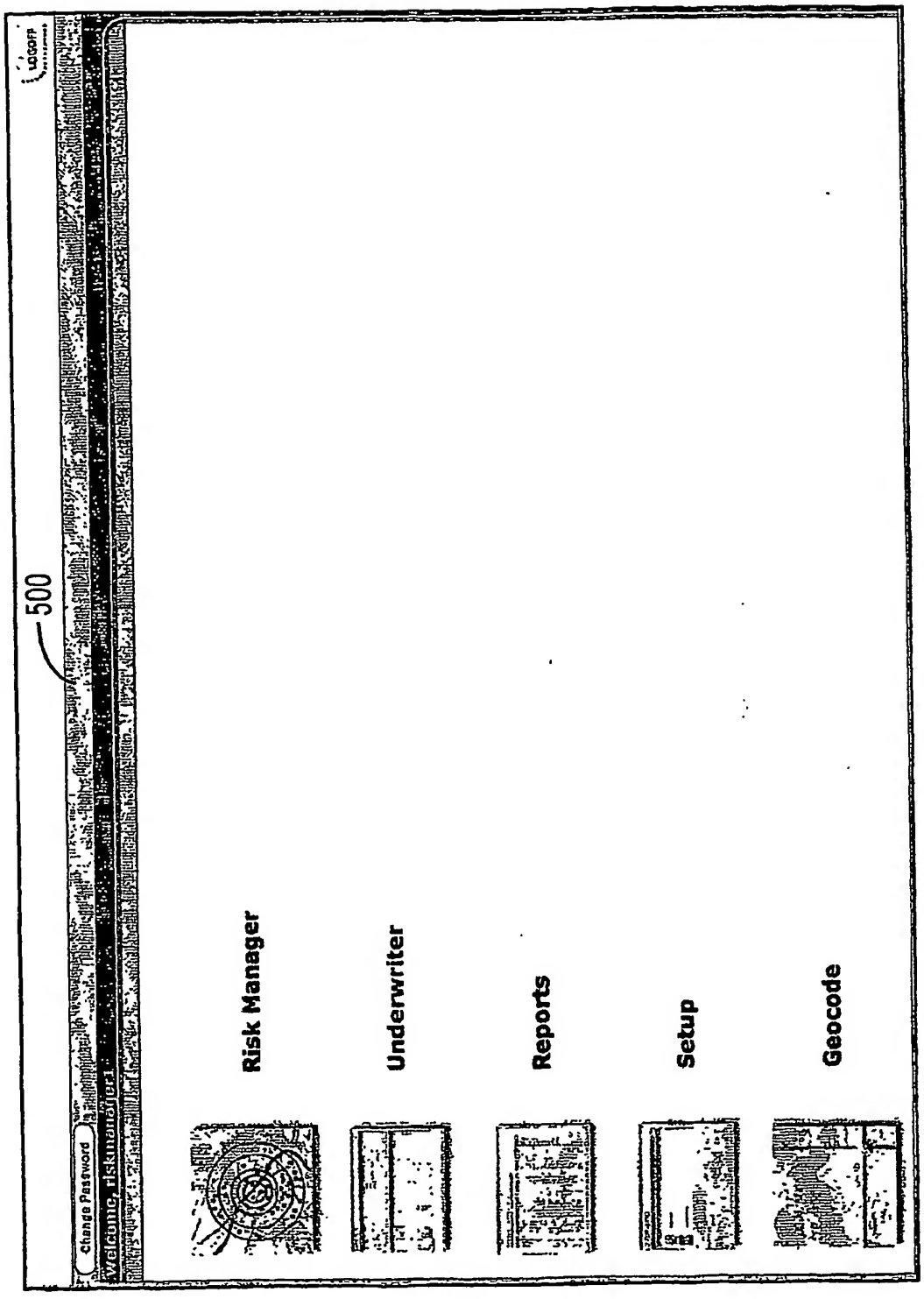

500
Change Password
Risk Manager
Underwriter
Reports
Setup
Geocode

FIG. 5

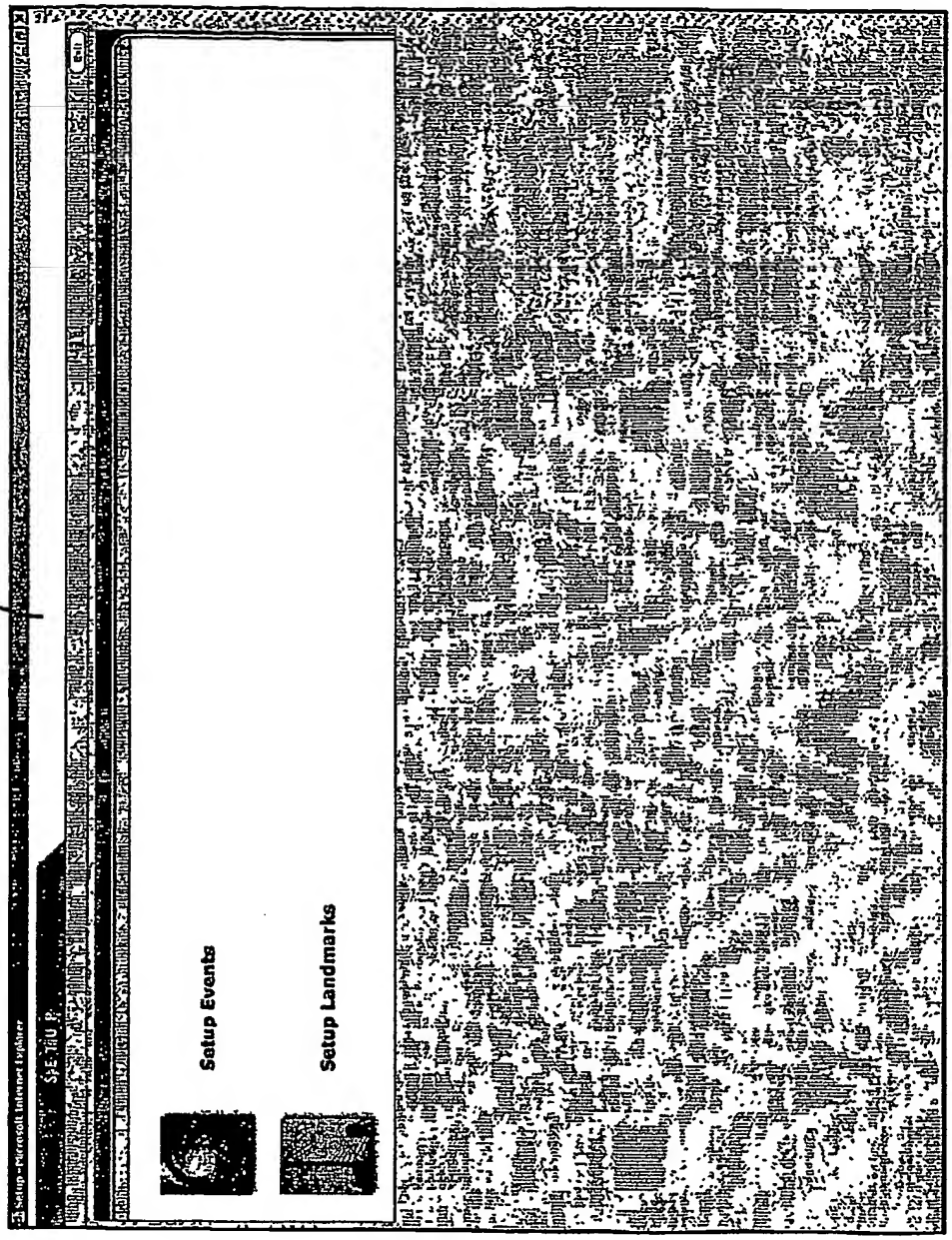


FIG. 6

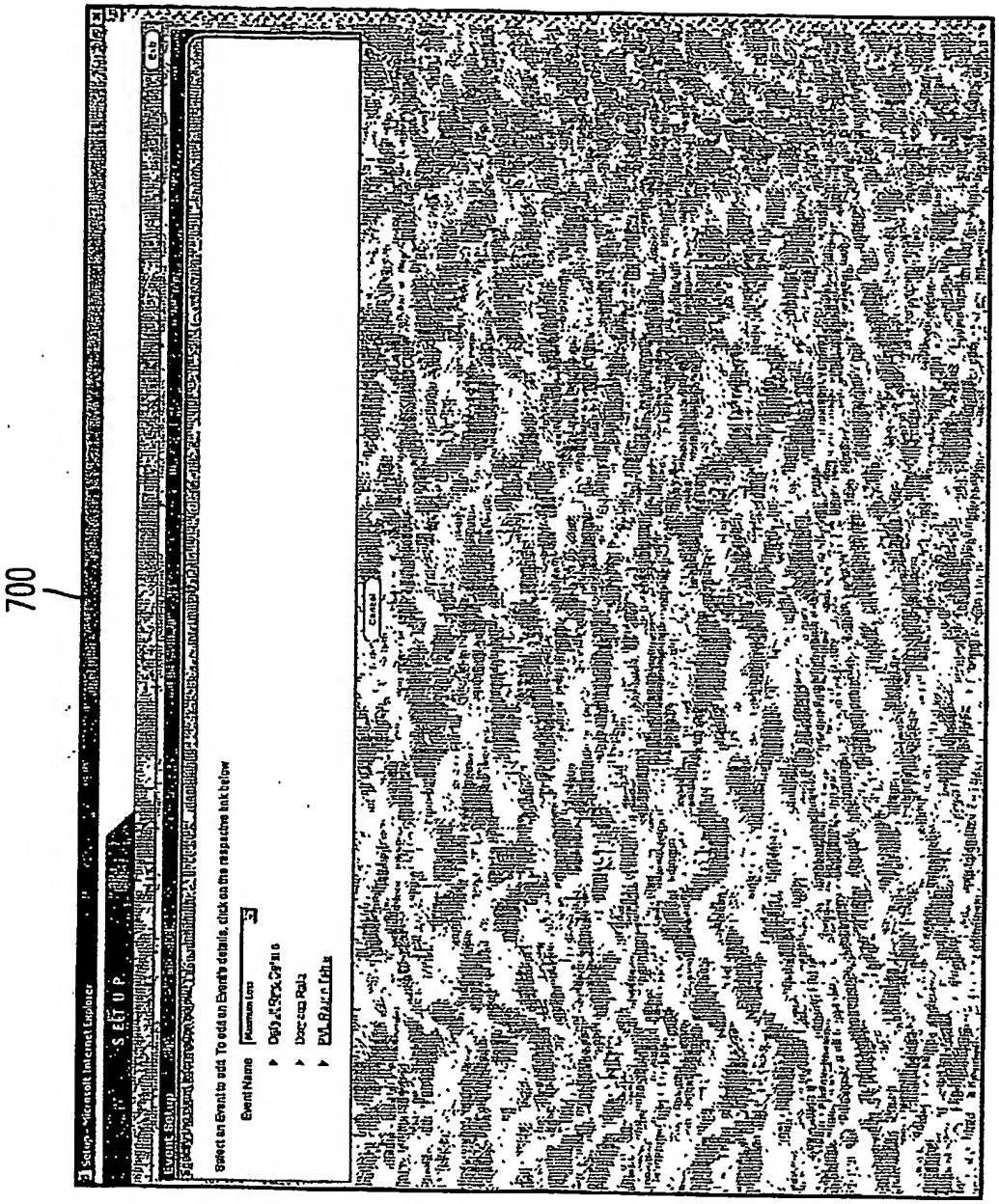

700
SETUP
Select an Event to add. To add an Event's details, click on the respective link below
Event Name
Close

FIG. 7

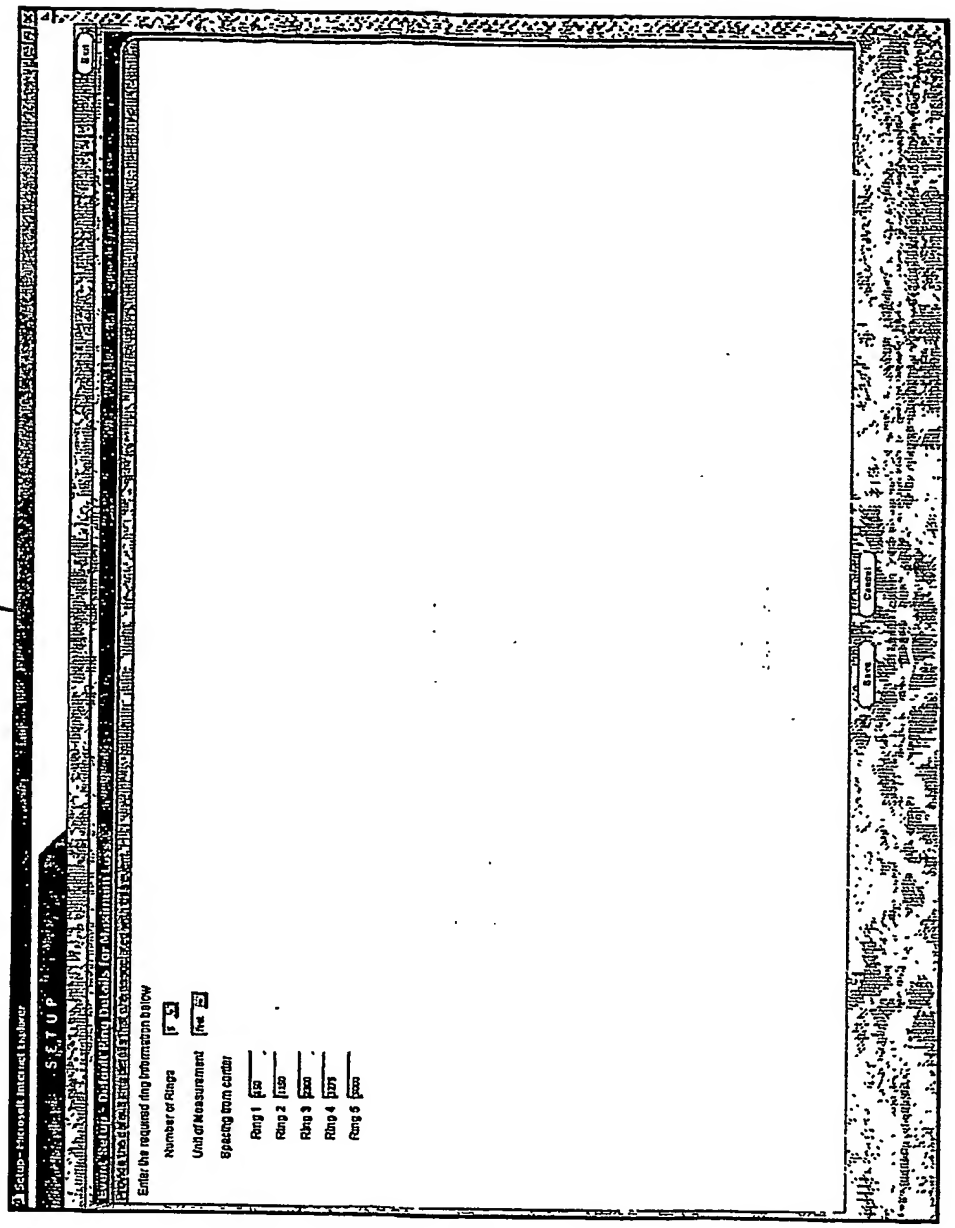

800
SETUP
Enter the required ring information below
Number of Rings
Unit of Measurement
Spacing from center
Ring 1
Ring 2
Ring 3
Ring 4
Ring 5

FIG. 8

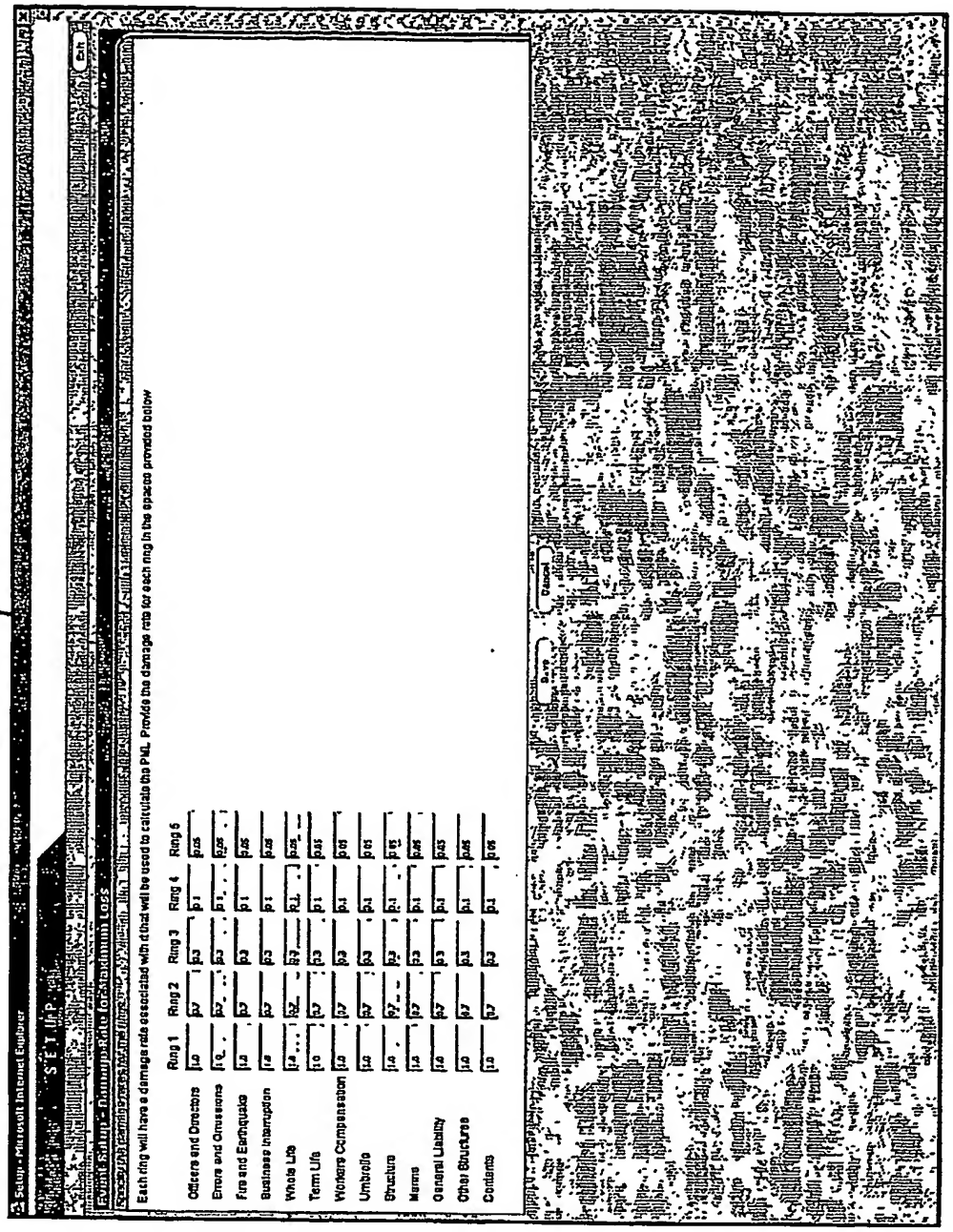

900
Each ring will have a damage rate associated with it that will be used to calculate the PML. Provide the damage rate for each ring in the space provided below
Ring 1
Ring 2
Ring 3
Ring 4
Ring 5
Officers and Directors
Errors and Omissions
Fire and Earthquake
Business Interruption
Whole Life
Term Life
Workers Compensation
Umbrella
Structure
Marine
General Liability
Other Structure
Contents

FIG. 9

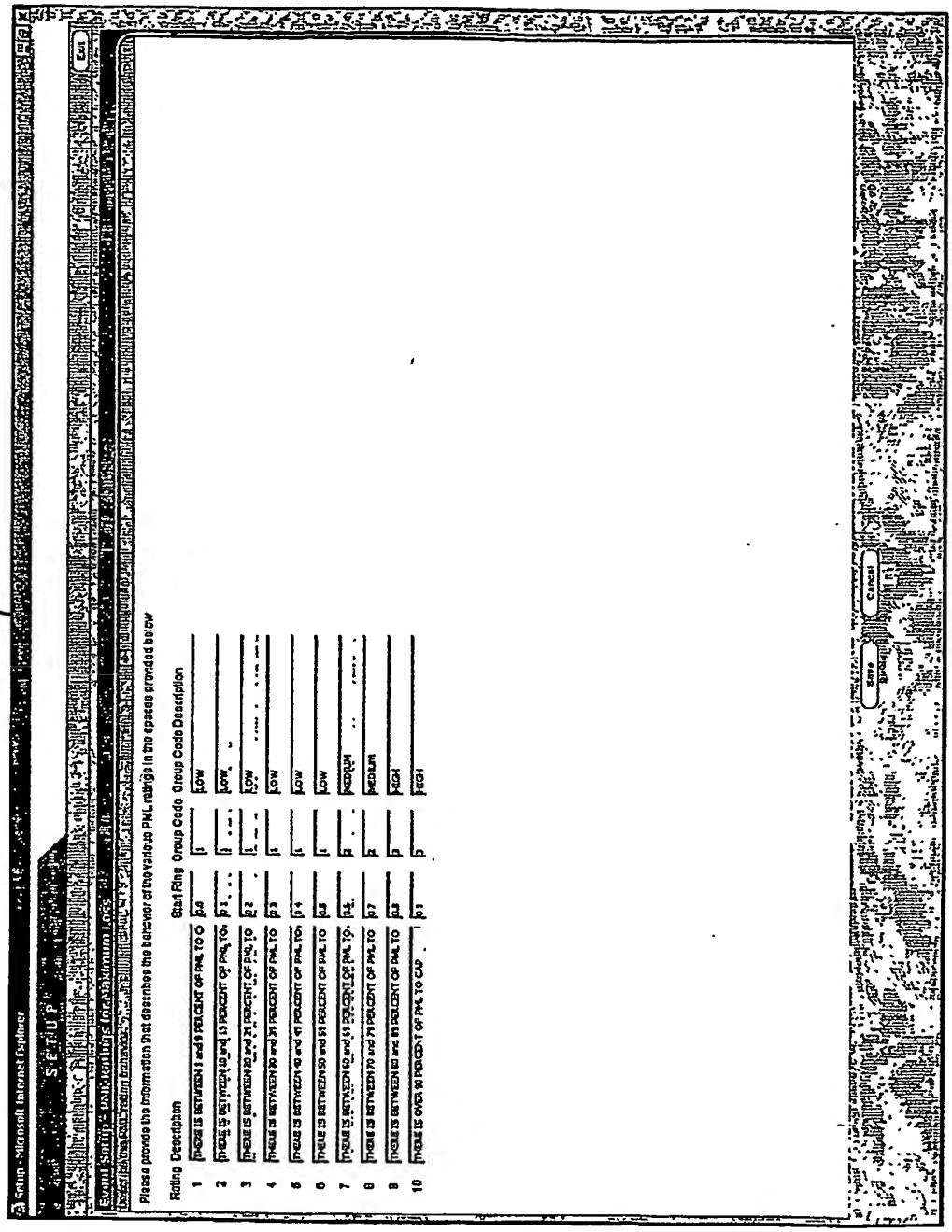

1000
Setup - Microsoft Internet Explorer
SETUP
Event Setup - PML Ratings for Maximum Loss
Please provide the information that describes the behavior of the various PML ratings in the spaces provided below
Rating Description Start Rtng Group Code Group Code Description
1 THERE IS BETWEEN 1 and 9 PERCENT OF PML TO O p0 g LOW
2 THERE IS BETWEEN 10 and 19 PERCENT OF PML TO p1 g LOW
3 THERE IS BETWEEN 20 and 29 PERCENT OF PML TO p2 g LOW
4 THERE IS BETWEEN 30 and 39 PERCENT OF PML TO p3 g LOW
5 THERE IS BETWEEN 40 and 49 PERCENT OF PML TO p4 g LOW
6 THERE IS BETWEEN 50 and 59 PERCENT OF PML TO p5 g LOW
7 THERE IS BETWEEN 60 and 69 PERCENT OF PML TO p6 g MEDIUM
8 THERE IS BETWEEN 70 and 79 PERCENT OF PML TO p7 g MEDIUM
9 THERE IS BETWEEN 80 and 89 PERCENT OF PML TO p8 g HIGH
10 THERE IS OVER 90 PERCENT OF PML TO CAP p9 g HIGH
Cancel
Back
Next

FIG. 10

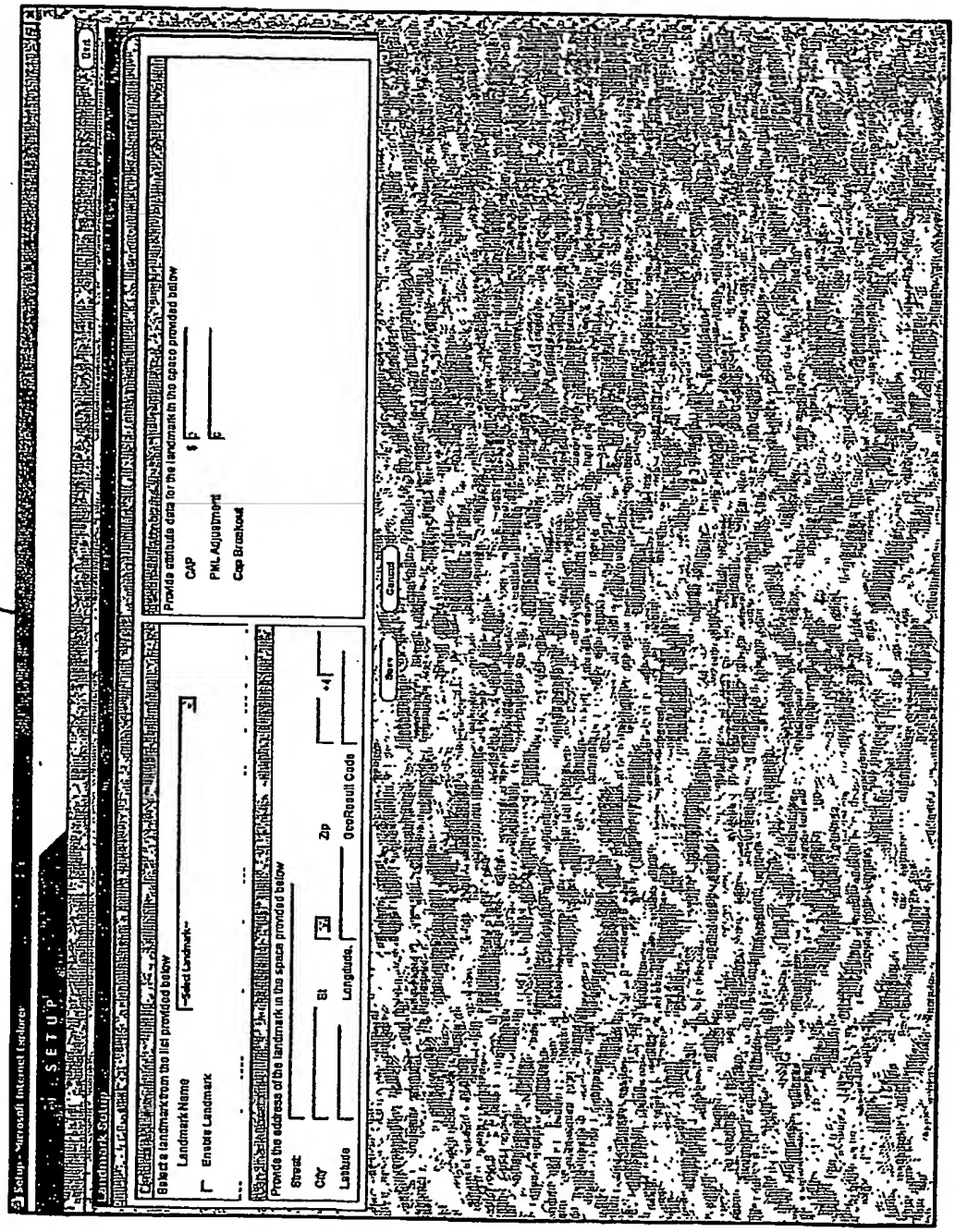

1100
SETUP
Landmark Setup
Select a landmark from the list provided below
Landmark Name
-Select Landmark-
Enable Landmark
Provide attribute data for the landmark in the space provided below
CAP
PNL Adjustment
Cap Breakout
Provide the address of the landmark in the space provided below
Street
City
St
Zip
Latitude
Longitude
GeoResult Code

FIG. 11

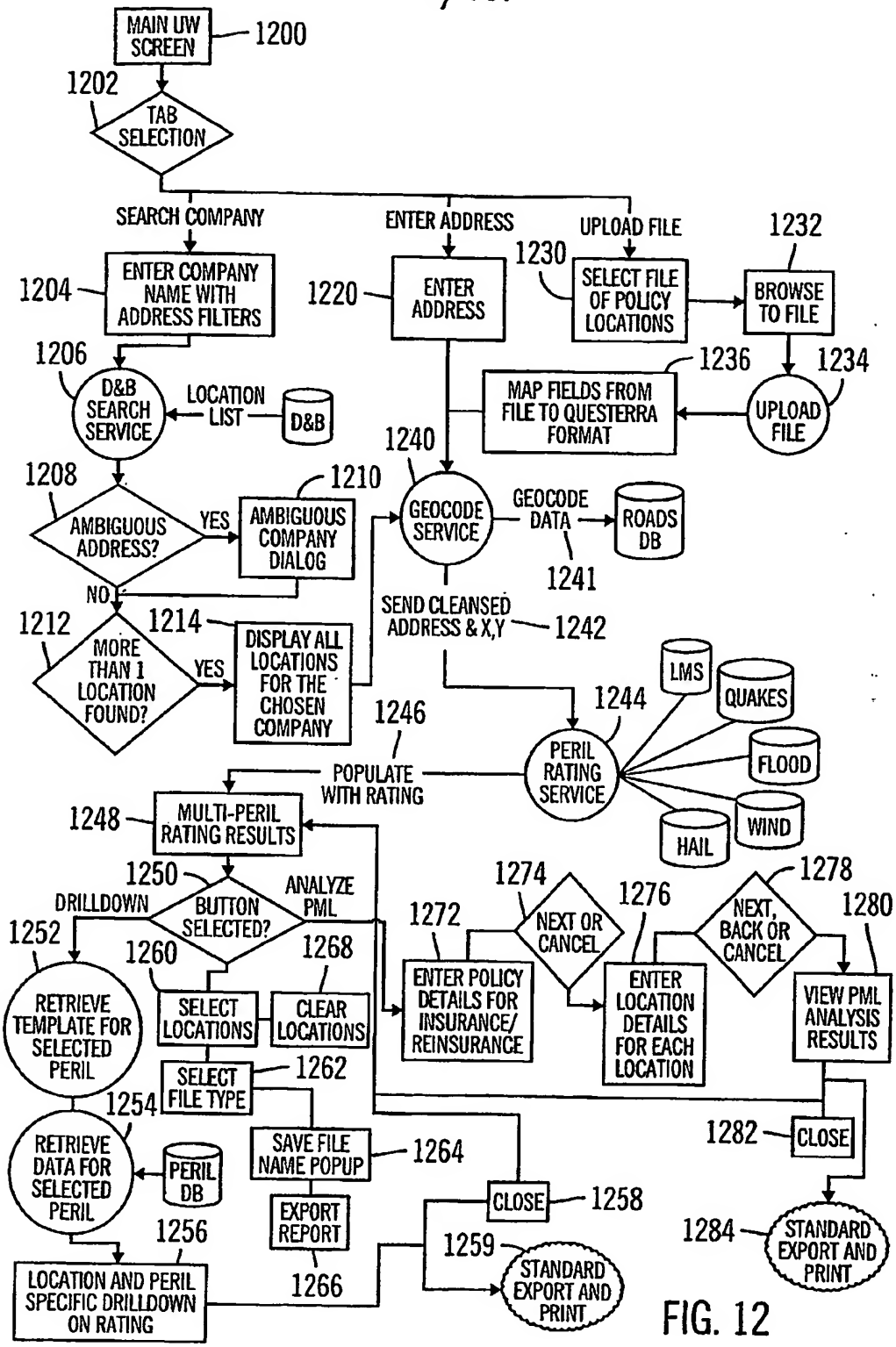

MAIN UW SCREEN
1200
1202
TAB SELECTION
SEARCH COMPANY
ENTER ADDRESS
UPLOAD FILE
1232
1204
ENTER COMPANY NAME WITH ADDRESS FILTERS
1220
ENTER ADDRESS
1230
SELECT FILE OF POLICY LOCATIONS
BROWSE TO FILE
1206
D&B SEARCH SERVICE
LOCATION LIST
D&B
1236
MAP FIELDS FROM FILE TO QUESTERRA FORMAT
1234
UPLOAD FILE
1240
1208
AMBIGUOUS ADDRESS?
YES
1210
AMBIGUOUS COMPANY DIALOG
GEOCODE SERVICE
GEOCODE DATA
ROADS DB
1241
NO
SEND CLEANSED ADDRESS & X,Y
1242
1212
MORE THAN 1 LOCATION FOUND?
1214
YES
DISPLAY ALL LOCATIONS FOR THE CHOSEN COMPANY
LMS
QUAKES
1244
1246
PERIL RATING SERVICE
FLOOD
POPULATE WITH RATING
WIND
HAIL
1248
MULTI-PERIL RATING RESULTS
1250
DRILLDOWN
BUTTON SELECTED?
ANALYZE PML
1274
1276
1278
1280
1272
NEXT OR CANCEL
NEXT, BACK OR CANCEL
1252
1260
1268
ENTER POLICY DETAILS FOR INSURANCE/ REINSURANCE
ENTER LOCATION DETAILS FOR EACH LOCATION
VIEW PML ANALYSIS RESULTS
RETRIEVE TEMPLATE FOR SELECTED PERIL
SELECT LOCATIONS
CLEAR LOCATIONS
SELECT FILE TYPE
1262
1254
1282
CLOSE
RETRIEVE DATA FOR SELECTED PERIL
PERIL DB
SAVE FILE NAME POPUP
1264
CLOSE
1258
1284
STANDARD EXPORT AND PRINT
1256
EXPORT REPORT
1259
LOCATION AND PERIL SPECIFIC DRILLDOWN ON RATING
1266
STANDARD EXPORT AND PRINT

FIG. 12

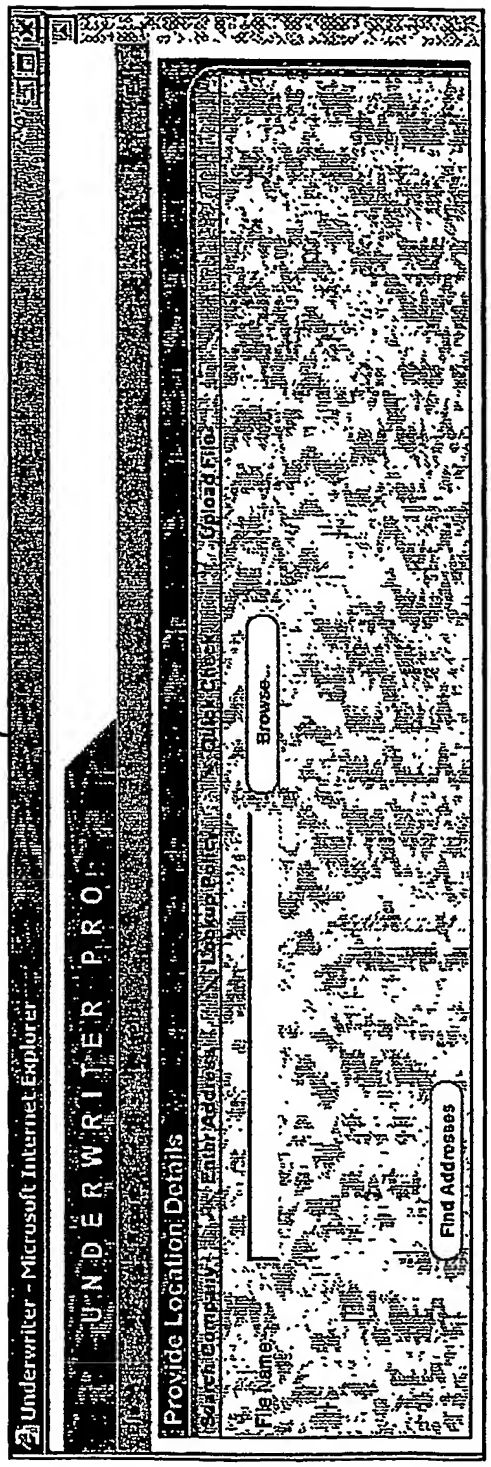

1300
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Browse...
Find Addresses
File Name

FIG. 13

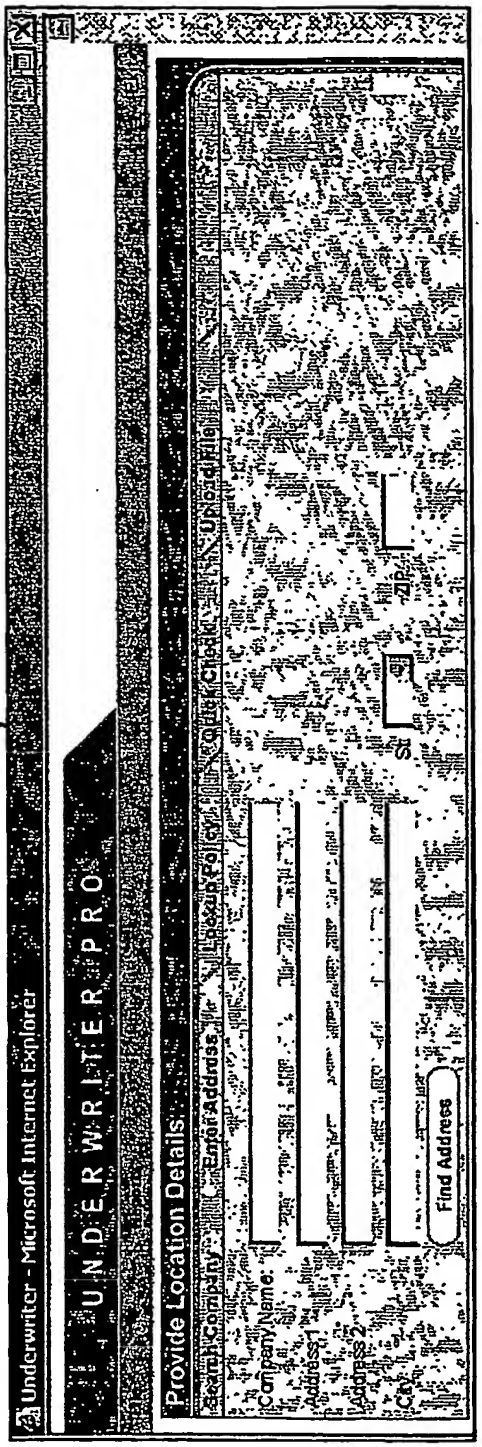

1400
Underwriter - Microsoft Internet Explorer
U N D E R W R I T E R P R O
Provide Location Details
Search Company
Enter Address
Company Name:
Address:
Address 2:
City:
Find Address

FIG. 14

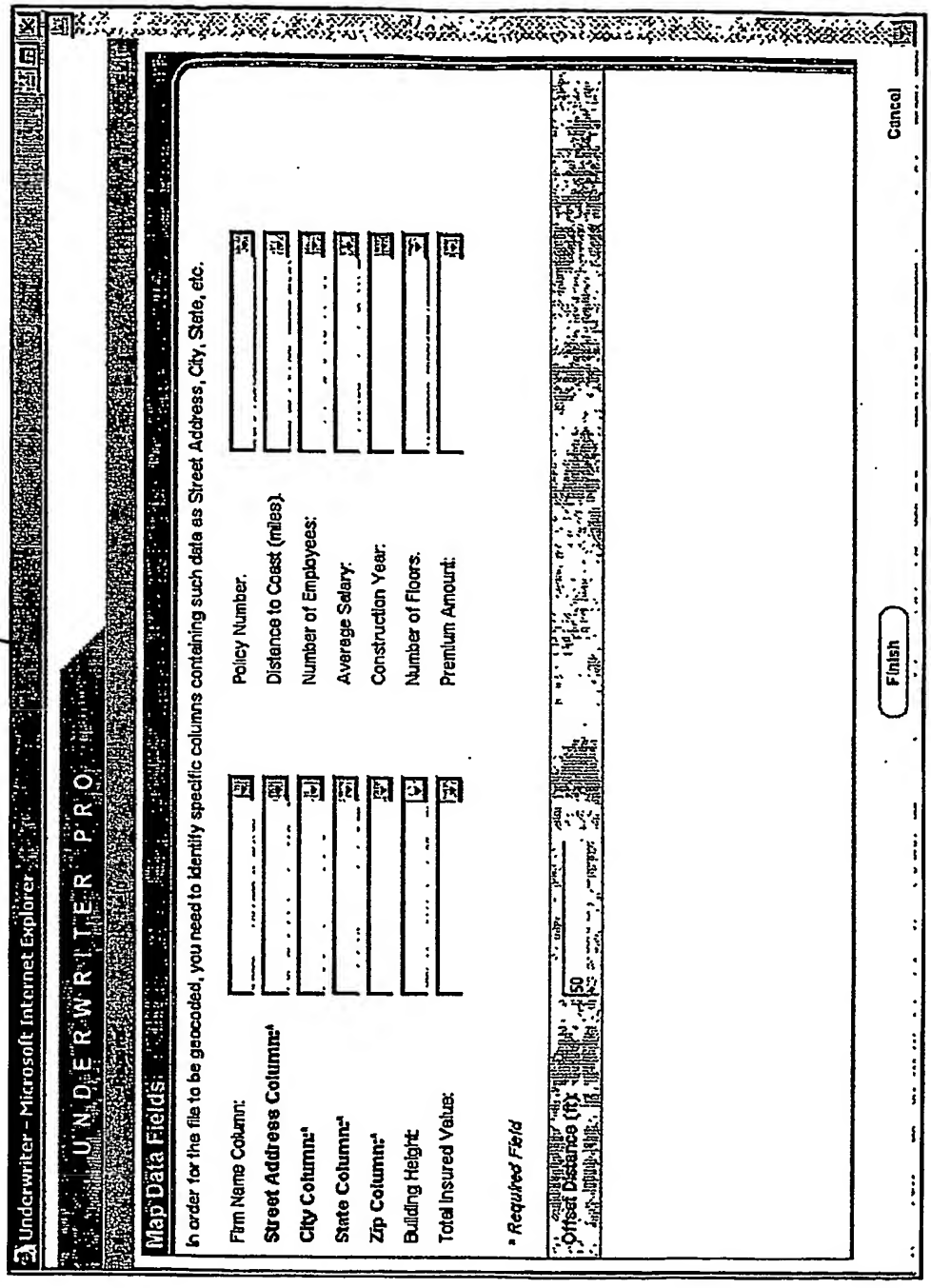

1500
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Map Data Fields
In order for the file to be geocoded, you need to identify specific columns containing such data as Street Address, City, State, etc.
Firm Name Column:
Street Address Column:*
City Column:*
State Column:*
Zip Column:*
Building Height:
Total Insured Value:
* Required Field
Policy Number:
Distance to Coast (miles):
Number of Employees:
Average Salary:
Construction Year:
Number of Floors:
Premium Amount:
Offset Distance (ft):
50
Finish
Cancel

FIG. 15

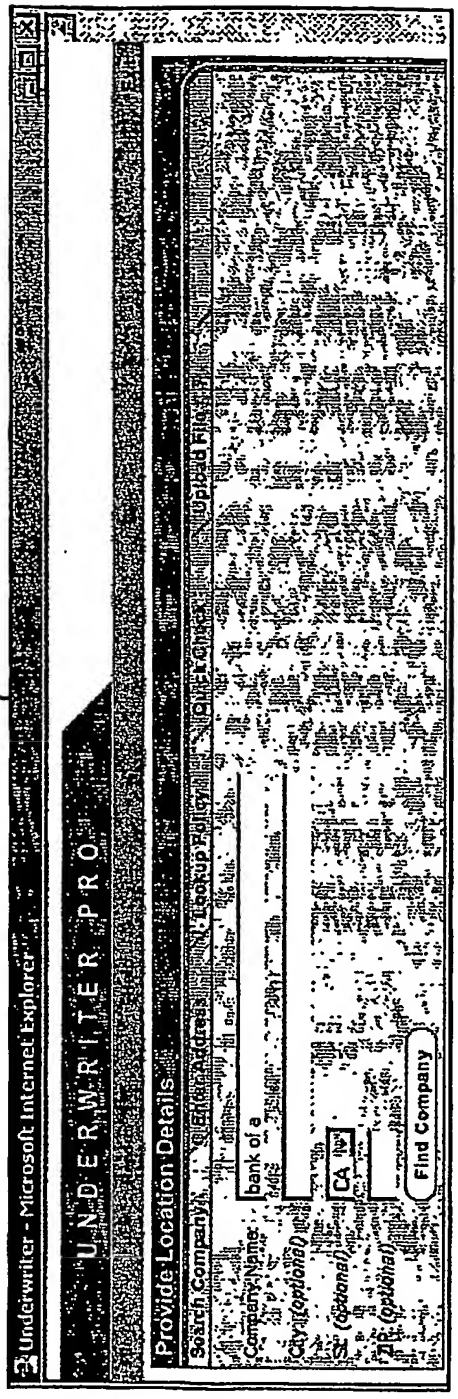

1600
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Search Company
Company Name
bank of a
CA
Find Company

FIG. 16

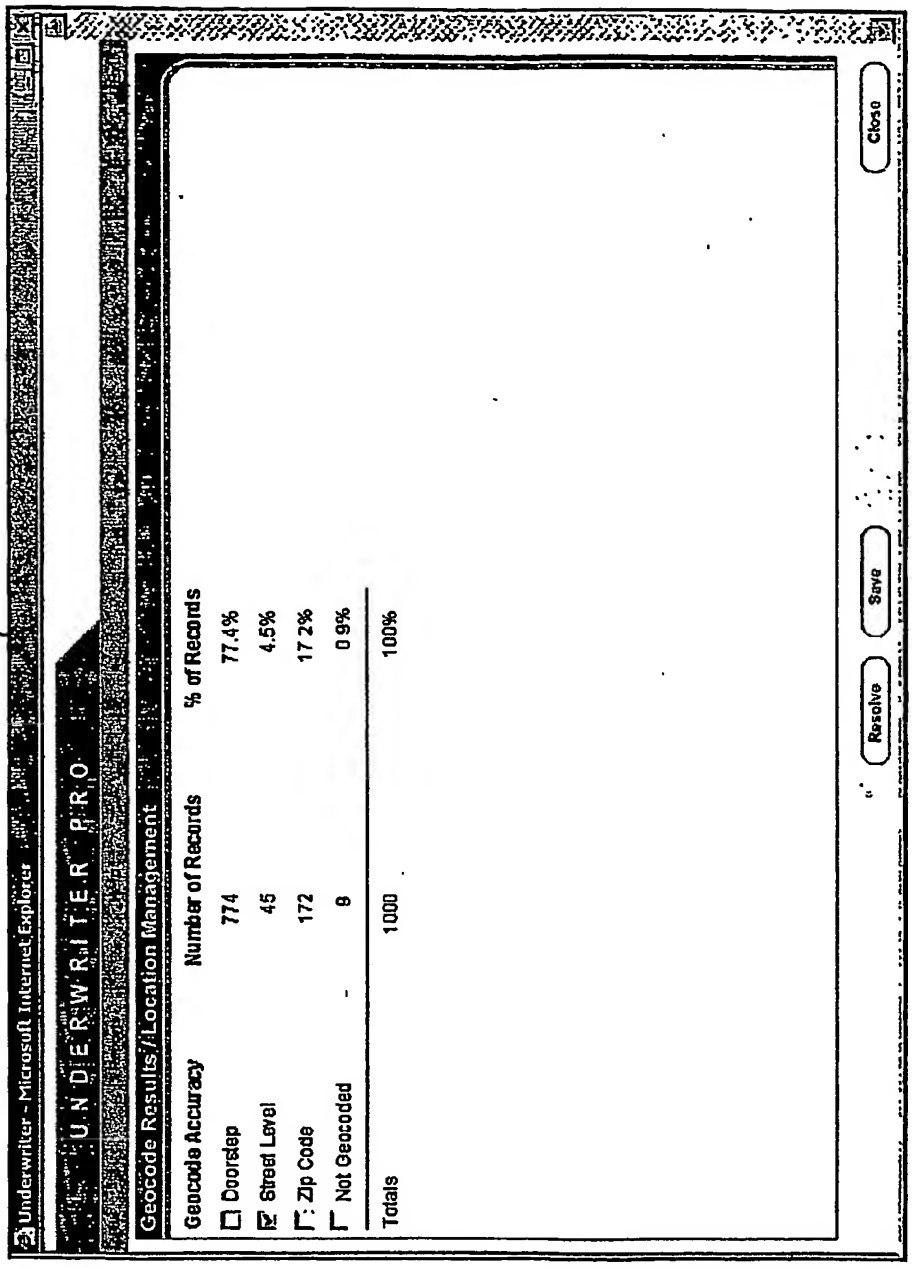

1700
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Geocode Results/Location Management
Geocode Accuracy
Number of Records
% of Records
Doorstep
774
77.4%
Street Level
45
4.5%
Zip Code
172
17.2%
Not Geocoded
8
0.9%
Totals
1000
100%
Resolve
Save
Close

FIG. 17

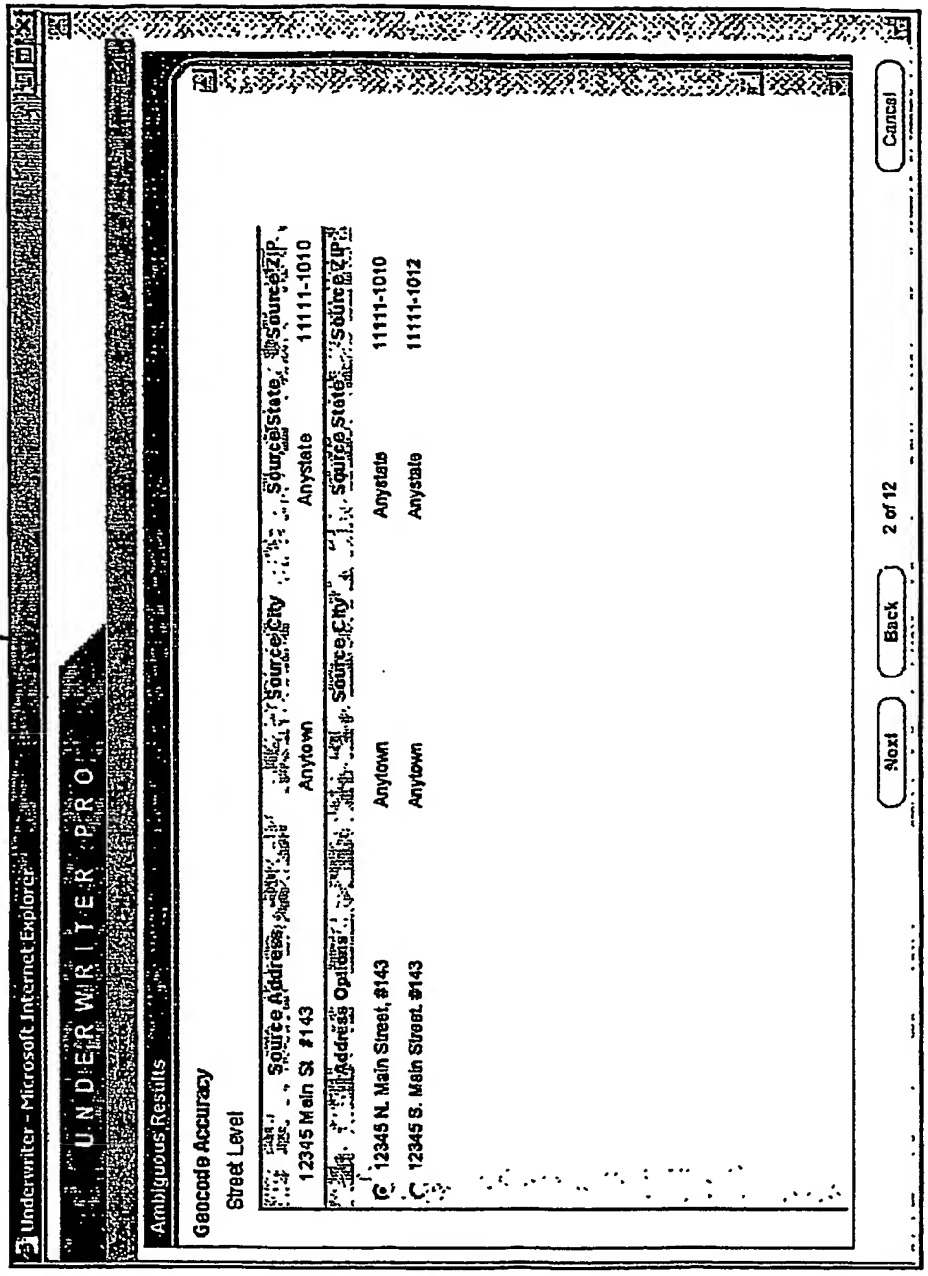

1800
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Ambiguous Results
Geocode Accuracy
Street Level
Source Address
Source City
Source State
Source ZIP
12345 Main St #143
Anytown
Anystate
11111-1010
Address Options
Source City
Source State
Source ZIP
12345 N. Main Street, #143
Anytown
Anystate
11111-1010
12345 S. Main Street, #143
Anytown
Anystate
11111-1012
Next
Back
2 of 12
Cancel

FIG. 18

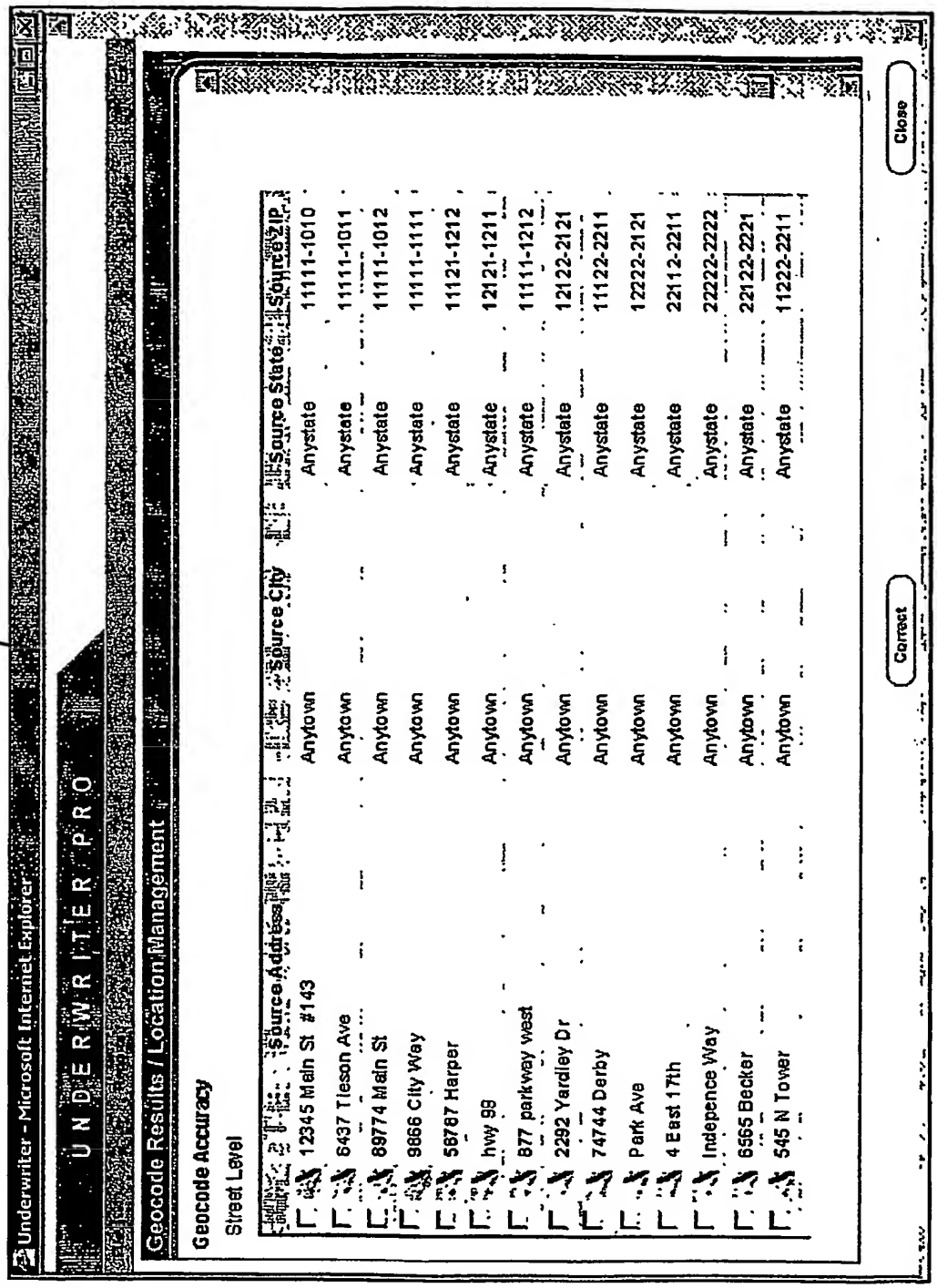

1900
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Geocode Results / Location Management
Geocode Accuracy
Street Level
Source Address
Source City
Source State
Source ZIP
12345 Main St #143
Anytown
Anystate
11111-1010
6437 Tieson Ave
Anytown
Anystate
11111-1011
89774 Main St
Anytown
Anystate
11111-1012
9866 City Way
Anytown
Anystate
11111-1111
56787 Harper
Anytown
Anystate
11121-1212
hwy 99
Anytown
Anystate
12121-1211
877 parkway west
Anytown
Anystate
11111-1212
2292 Yardley Dr
Anytown
Anystate
12122-2121
74744 Derby
Anytown
Anystate
11122-2211
Park Ave
Anytown
Anystate
12222-2121
4 East 17th
Anytown
Anystate
22112-2211
Indepence Way
Anytown
Anystate
22222-2222
6565 Becker
Anytown
Anystate
22122-2221
545 N Tower
Anytown
Anystate
11222-2211
Correct
Close

FIG. 19

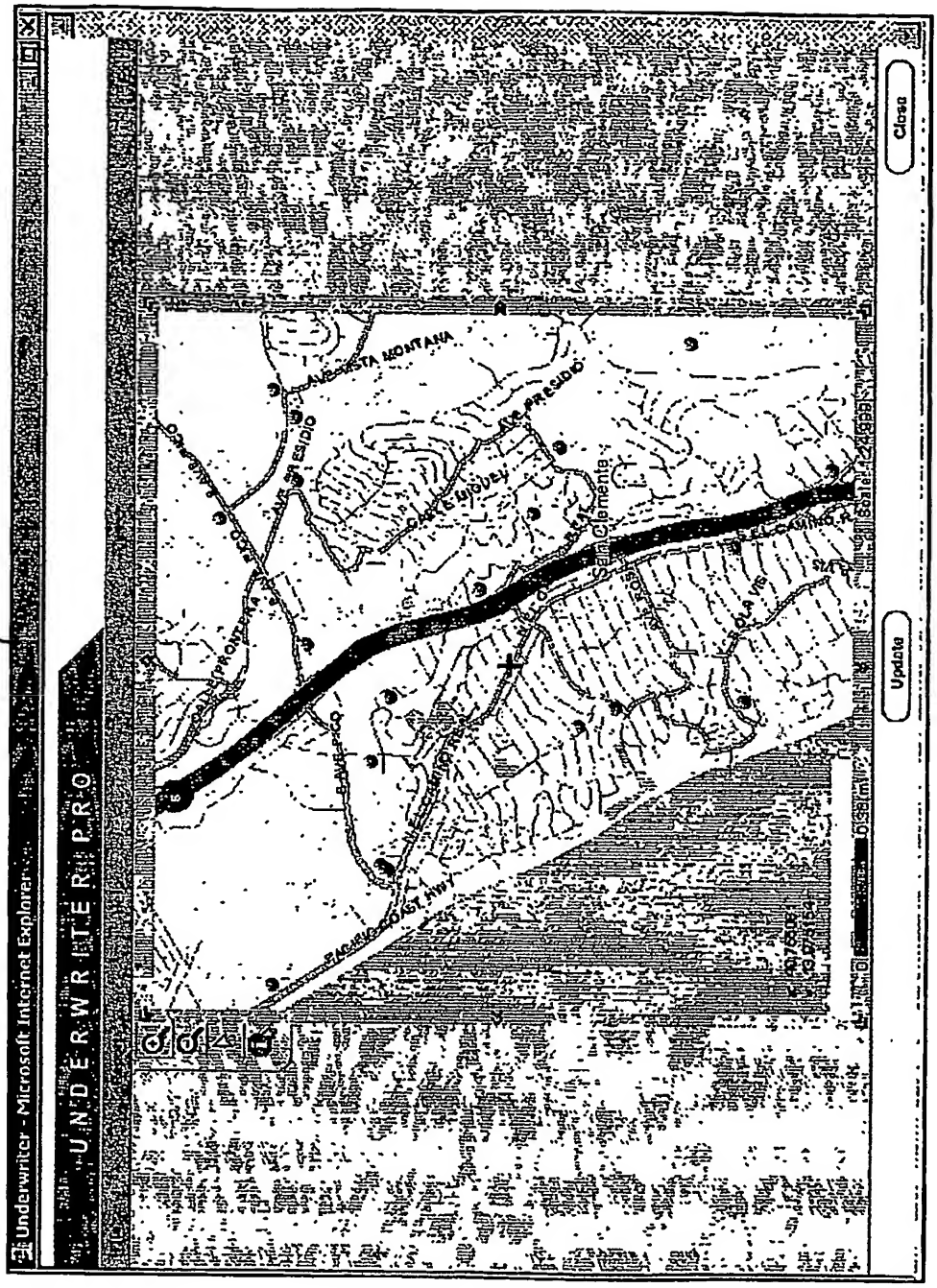

Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Close
Update
2000

FIG. 20

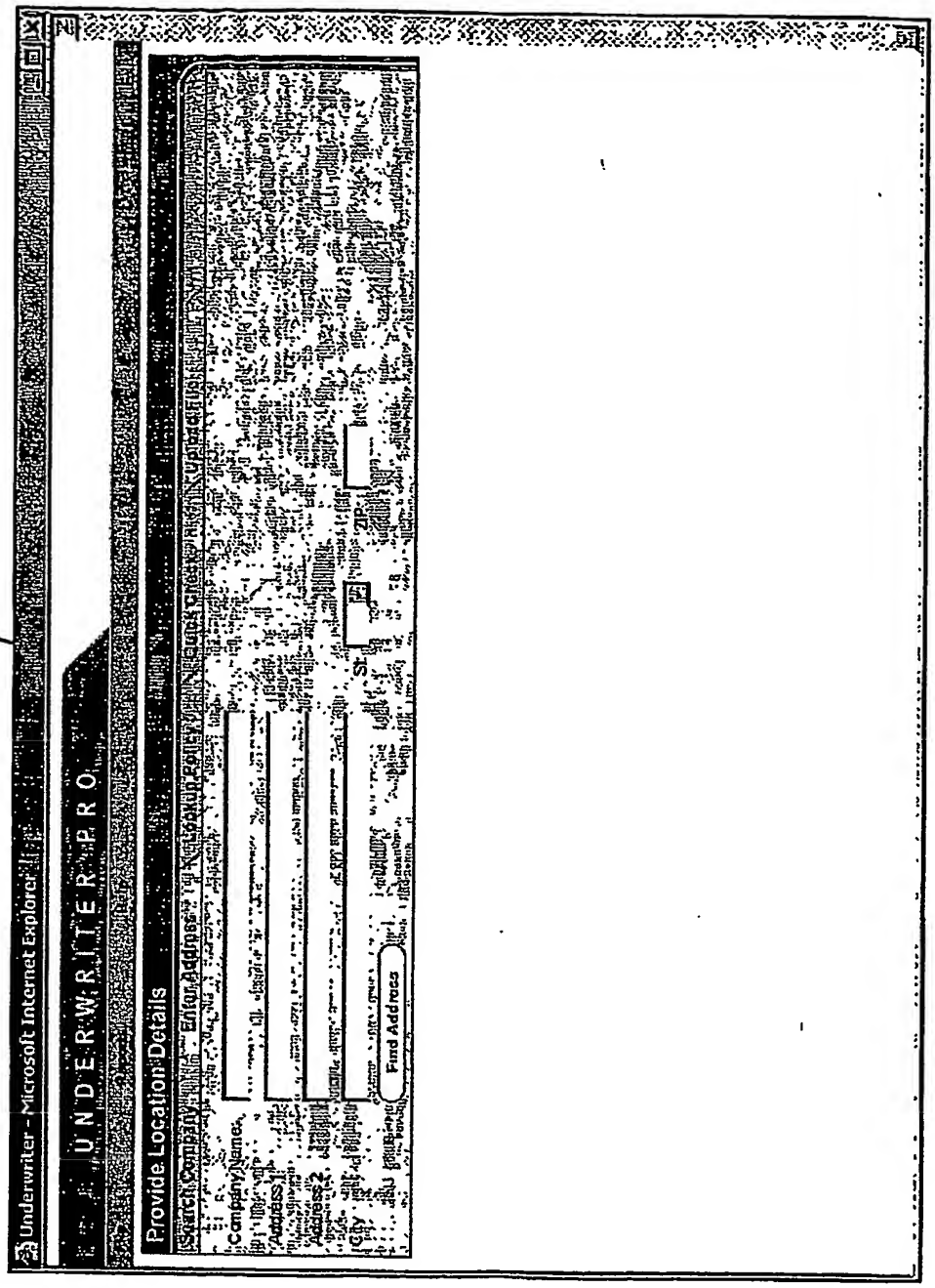

2100
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Search Company Name - Enter Address
CompanyName
Address1
Address2
City
ST
ZIP
Find Address

FIG. 21

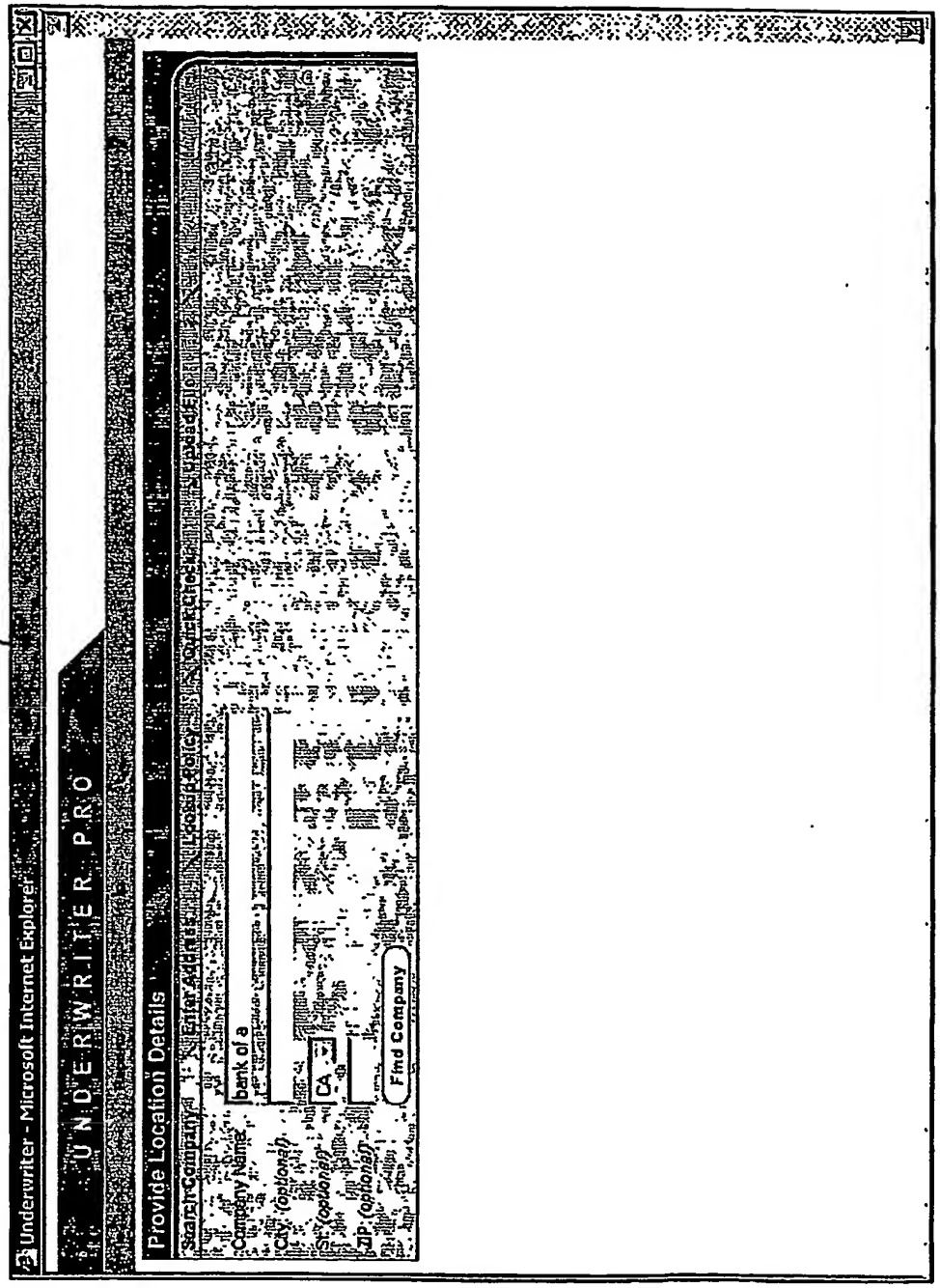

2200
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Search Company
Enter Address
Company Name
bank of a
CA
Find Company

FIG. 22

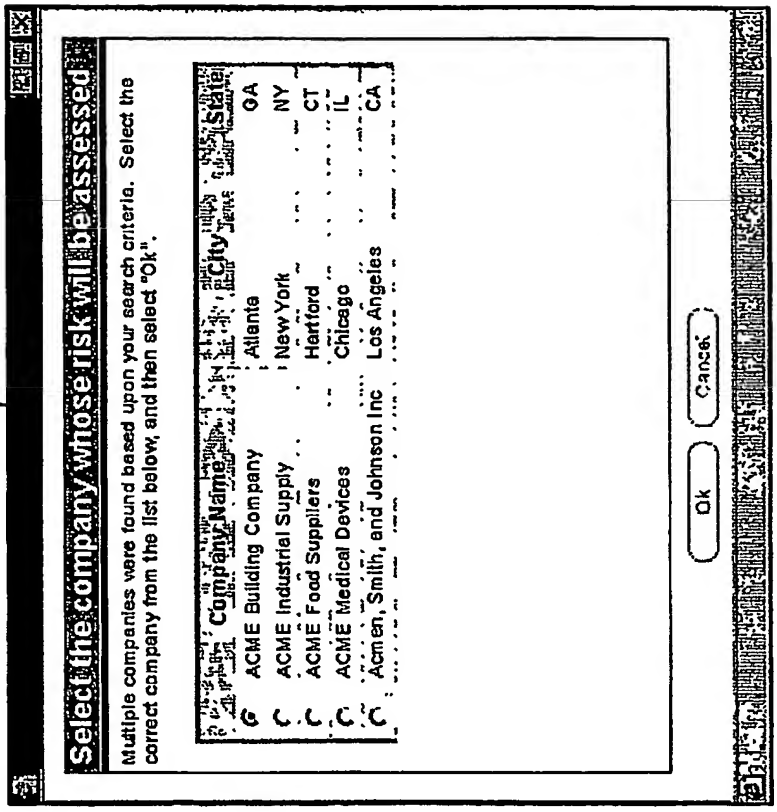

2300
Select the company whose risk will be assessed
Multiple companies were found based upon your search criteria. Select the correct company from the list below, and then select "Ok".
Company Name
City
State
ACME Building Company
Atlanta
GA
ACME Industrial Supply
New York
NY
ACME Food Suppliers
Hartford
CT
ACME Medical Devices
Chicago
IL
Acmen, Smith, and Johnson Inc
Los Angeles
CA
Ok
Cancel

FIG. 23

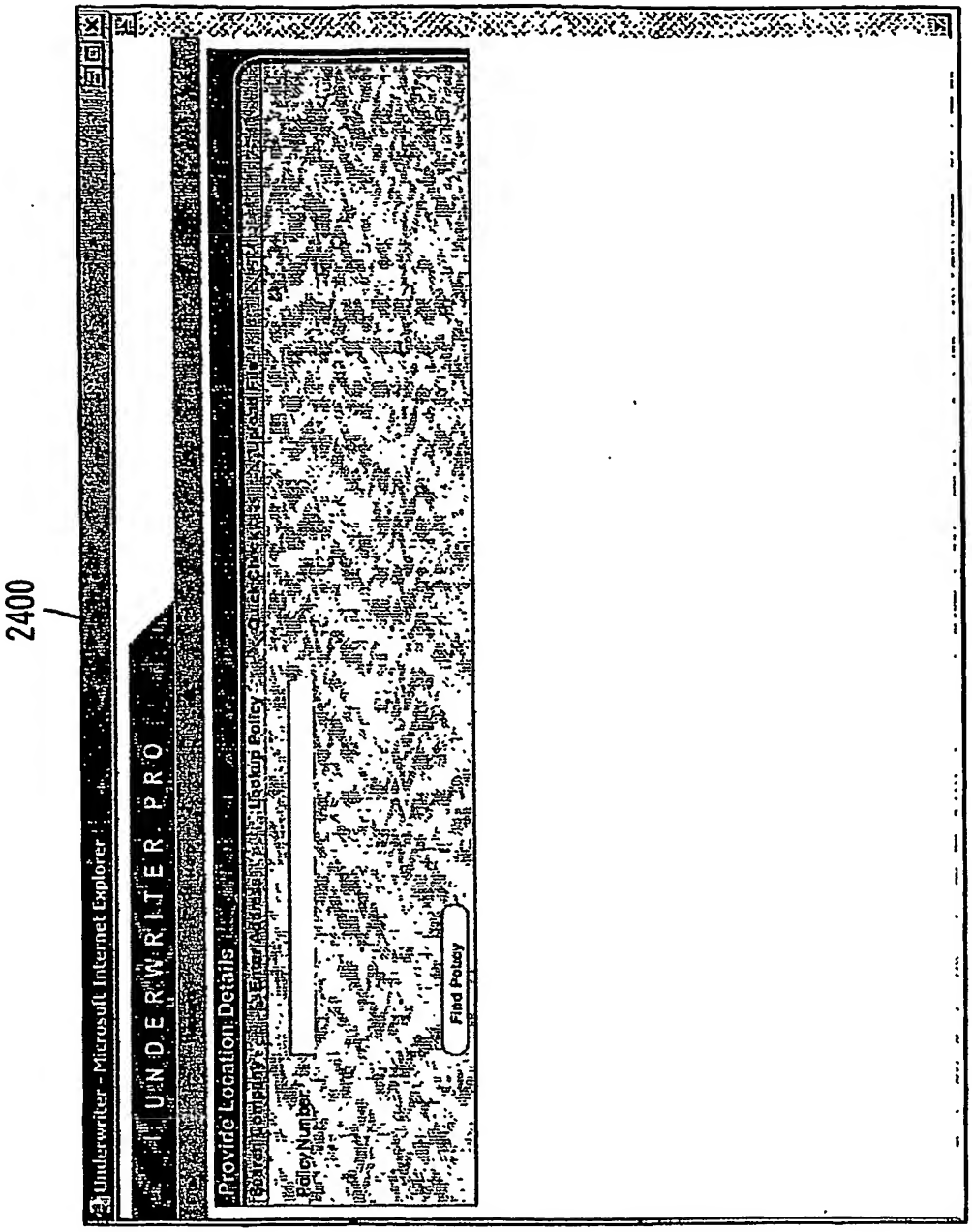

2400
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Policy Number
Find Policy

FIG. 24

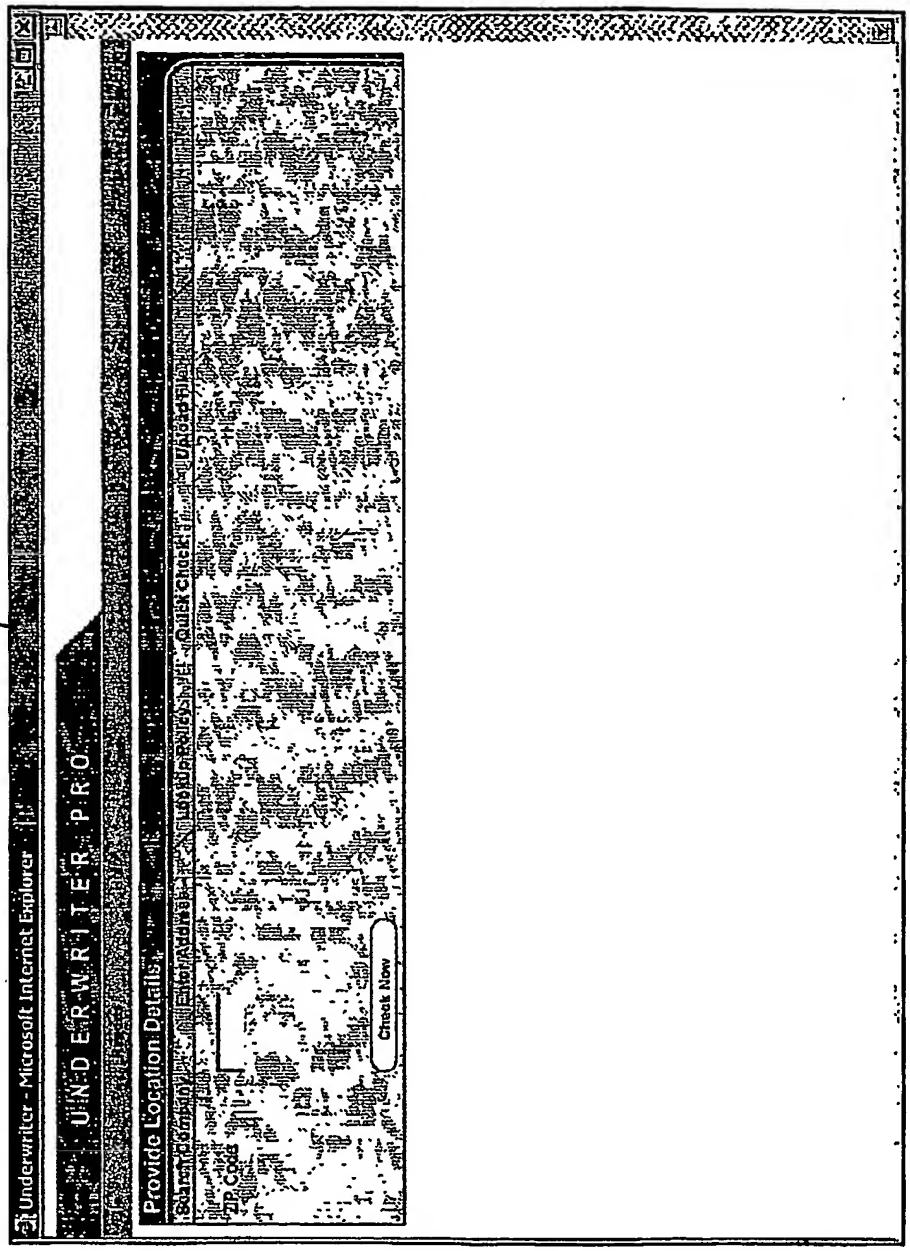

2500
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Provide Location Details
Check Now

FIG. 25

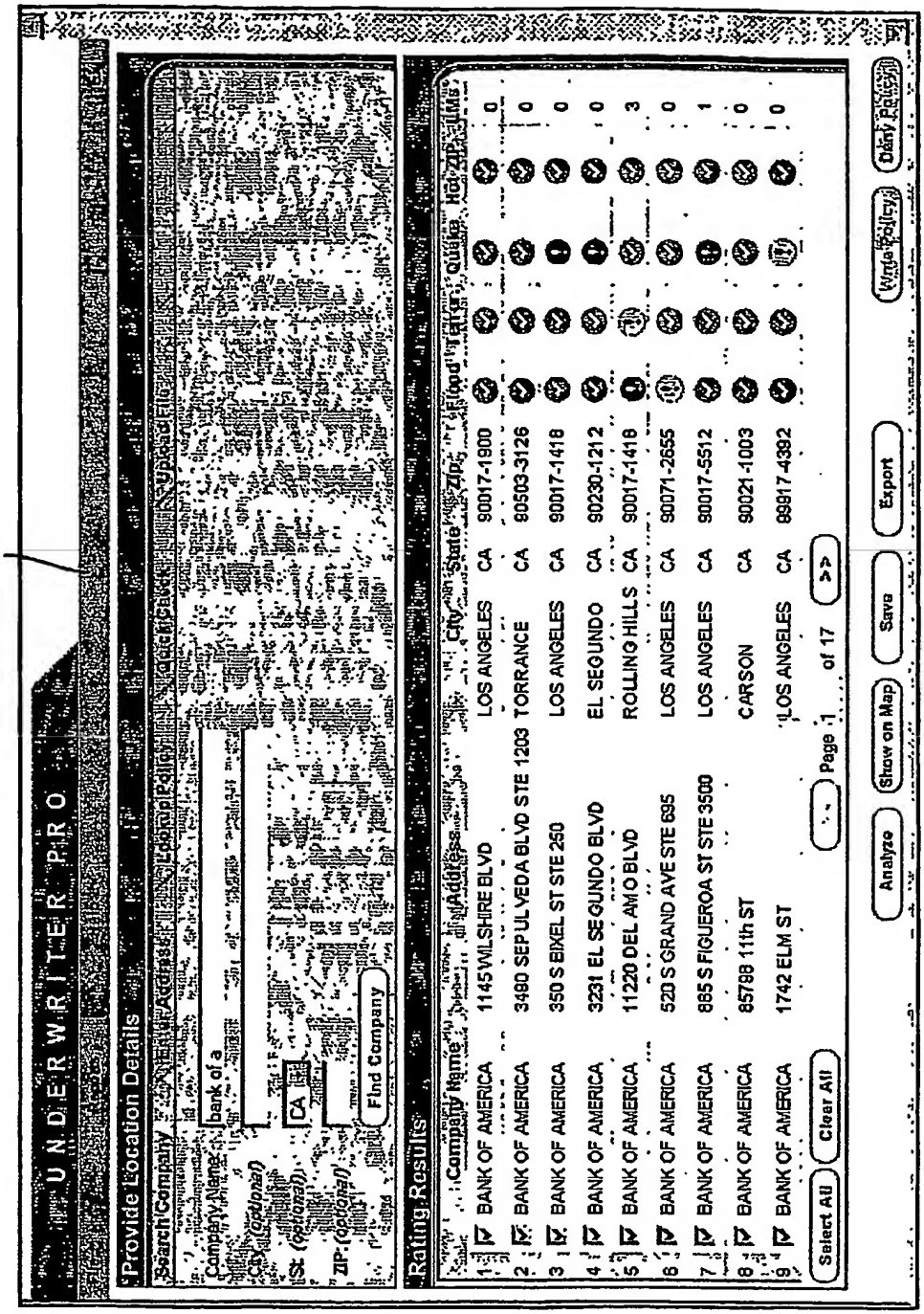

2600
UNDERWRITER PRO
Provide Location Details
Search Company
Company Name: bank of a
City (optional)
St (optional)
CA
ZIP (optional)
Find Company
Rating Results
Company Name
Address
City
State
Zip
Quick Flood Letter
HCI ZIP Lookup
1 BANK OF AMERICA 1145 WILSHIRE BLVD LOS ANGELES CA 90017-1900 0
2 BANK OF AMERICA 3480 SEPULVEDA BLVD STE 1203 TORRANCE CA 90503-3126 0
3 BANK OF AMERICA 350 S BIXEL ST STE 250 LOS ANGELES CA 90017-1418 0
4 BANK OF AMERICA 3231 EL SEGUNDO BLVD EL SEGUNDO CA 90230-1212 0
5 BANK OF AMERICA 11220 DEL AMO BLVD ROLLING HILLS CA 90017-1418 3
6 BANK OF AMERICA 520 S GRAND AVE STE 695 LOS ANGELES CA 90071-2655 0
7 BANK OF AMERICA 885 S FIGUEROA ST STE 3500 LOS ANGELES CA 90017-5512 1
8 BANK OF AMERICA 85788 11th ST CARSON CA 90021-1003 0
9 BANK OF AMERICA 1742 ELM ST LOS ANGELES CA 89917-4392 0
Select All
Clear All
Analyze
Show on Map
Save
Export
Write Policy
Daily Report
Page 1 of 17
>>

FIG. 26

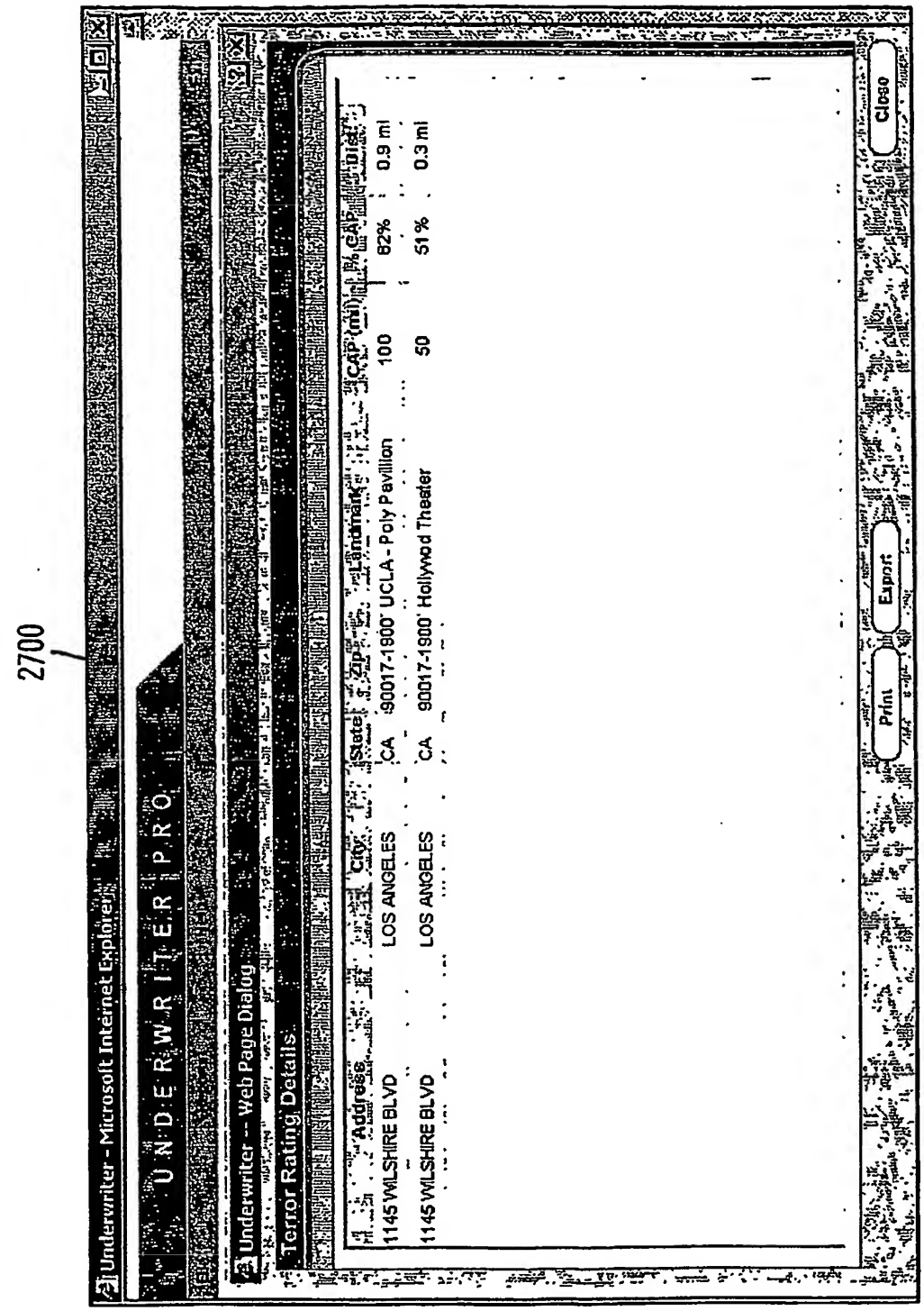

2700
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Underwriter -- Web Page Dialog
Terror Rating Details
Address
City
State
Zip
Landmark
CAP (mil)
LOS ANGELES
CA
90017-1900' UCLA - Poly Pavillion
100
82%
0.9 mi
1145 WILSHIRE BLVD
LOS ANGELES
CA
90017-1900' Hollywood Theater
50
51 %
0.3 mi
Print
Export
Close

FIG. 27

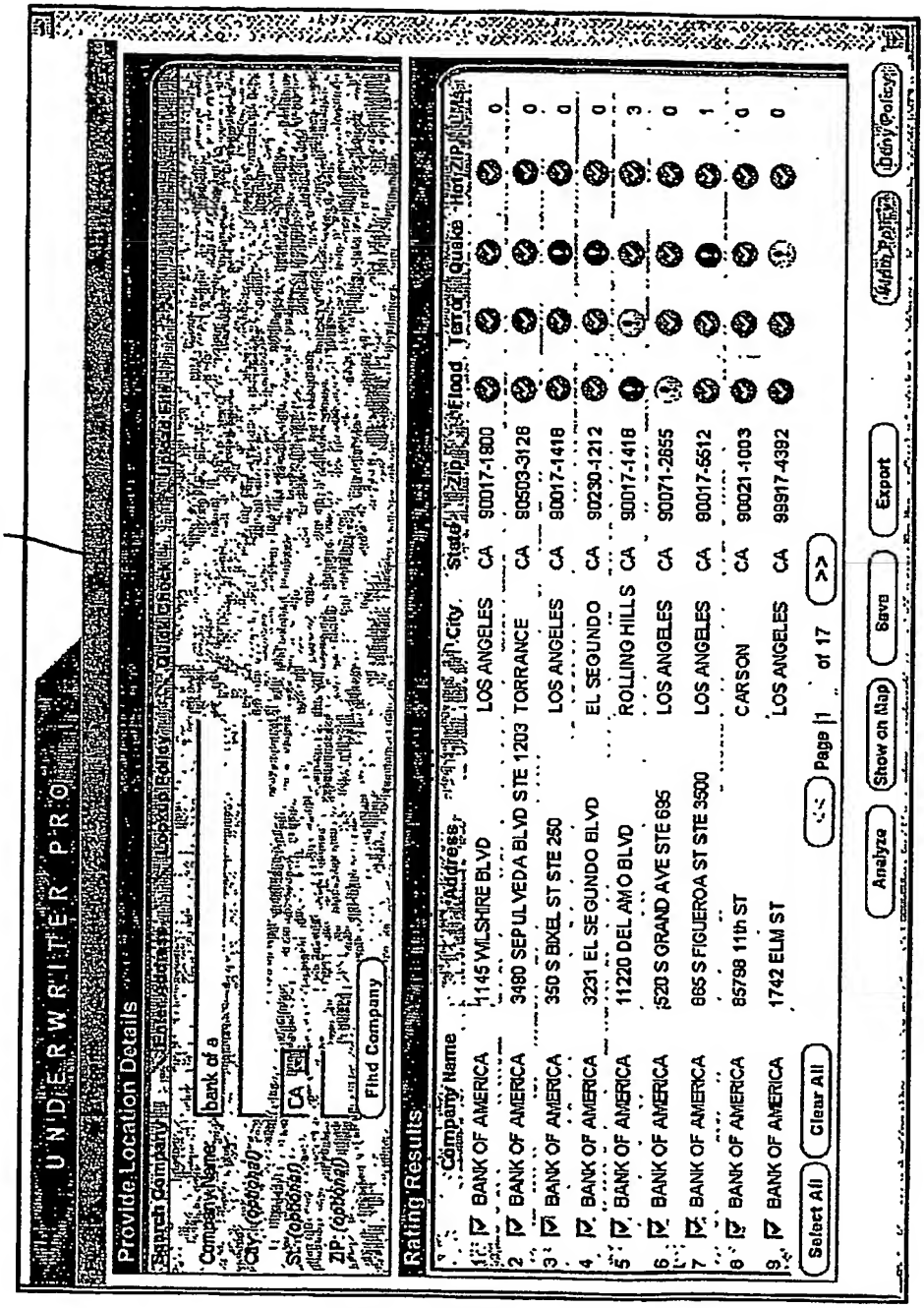

2800
UNDERWRITER PRO
Provide Location Details
Search Company
Company Name
bank of a
City (optional)
St (optional)
CA
ZIP (optional)
Find Company
Rating Results
Company Name
Address
City
State
ZIP
Flood
Terror
Quake
Hot/ZIP
1 BANK OF AMERICA 1145 WILSHIRE BLVD LOS ANGELES CA 90017-1900 0
2 BANK OF AMERICA 3480 SEPULVEDA BLVD STE 1203 TORRANCE CA 90503-3126 0
3 BANK OF AMERICA 350 S BIXEL ST STE 250 LOS ANGELES CA 90017-1418 0
4 BANK OF AMERICA 3231 EL SEGUNDO BLVD EL SEGUNDO CA 90230-1212 0
5 BANK OF AMERICA 11220 DEL AMO BLVD ROLLING HILLS CA 90017-1418 3
6 BANK OF AMERICA 520 S GRAND AVE STE 695 LOS ANGELES CA 90071-2655 0
7 BANK OF AMERICA 865 S FIGUEROA ST STE 3500 LOS ANGELES CA 90017-5512 1
8 BANK OF AMERICA 85798 11th ST CARSON CA 90021-1003 0
9 BANK OF AMERICA 1742 ELM ST LOS ANGELES CA 99917-4392 0
Select All
Clear All
Analyze
Show on Map
Save
Export
Page 1 of 17
>>
Auto Renew
Deny Policy

FIG. 28

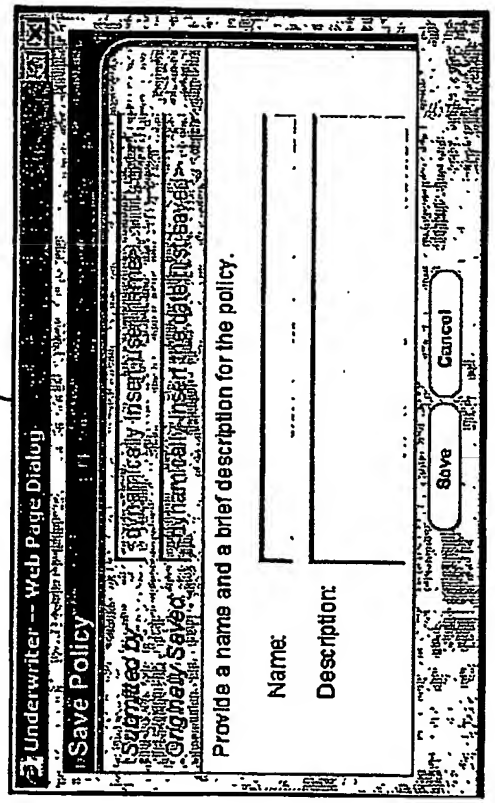

2900
Underwriter -- Web Page Dialog
Save Policy
Submitted by
Originally Saved
Provide a name and a brief description for the policy.
Name:
Description:
Save
Cancel

FIG. 29

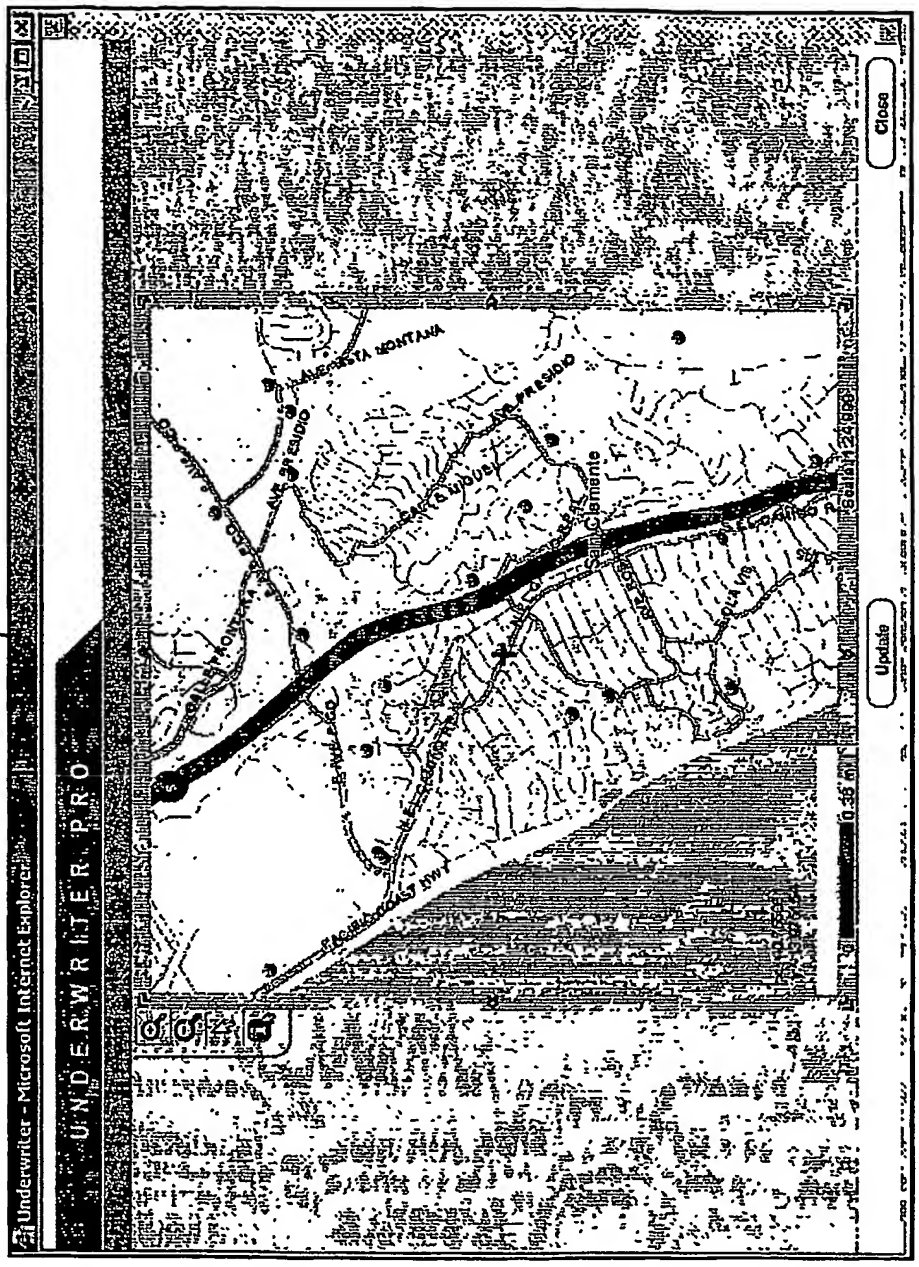

3000
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Close
Update
Clemente

FIG. 30

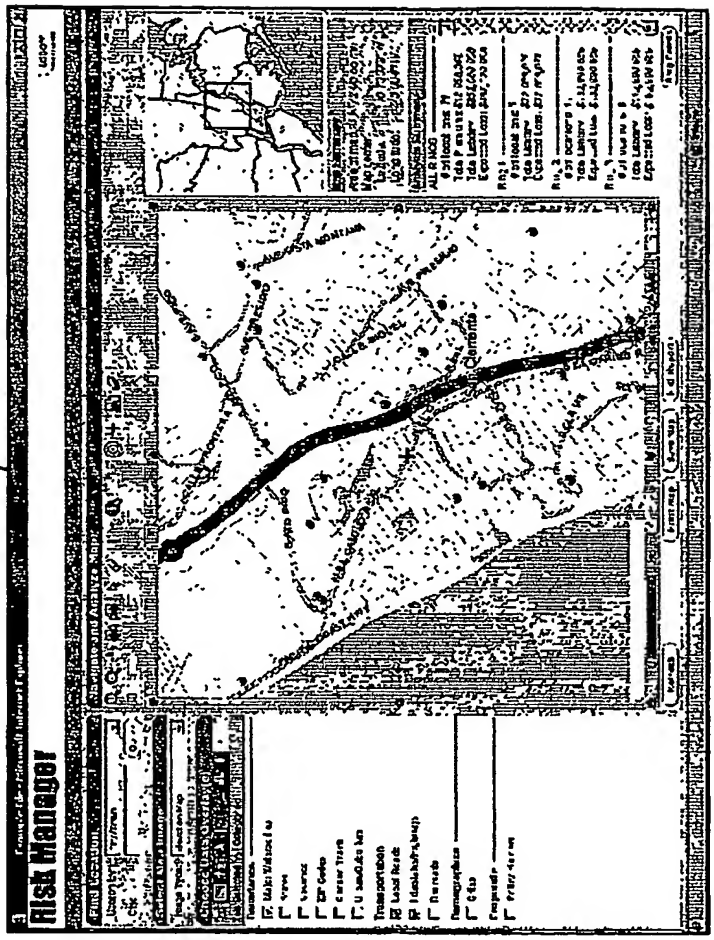


FIG. 31

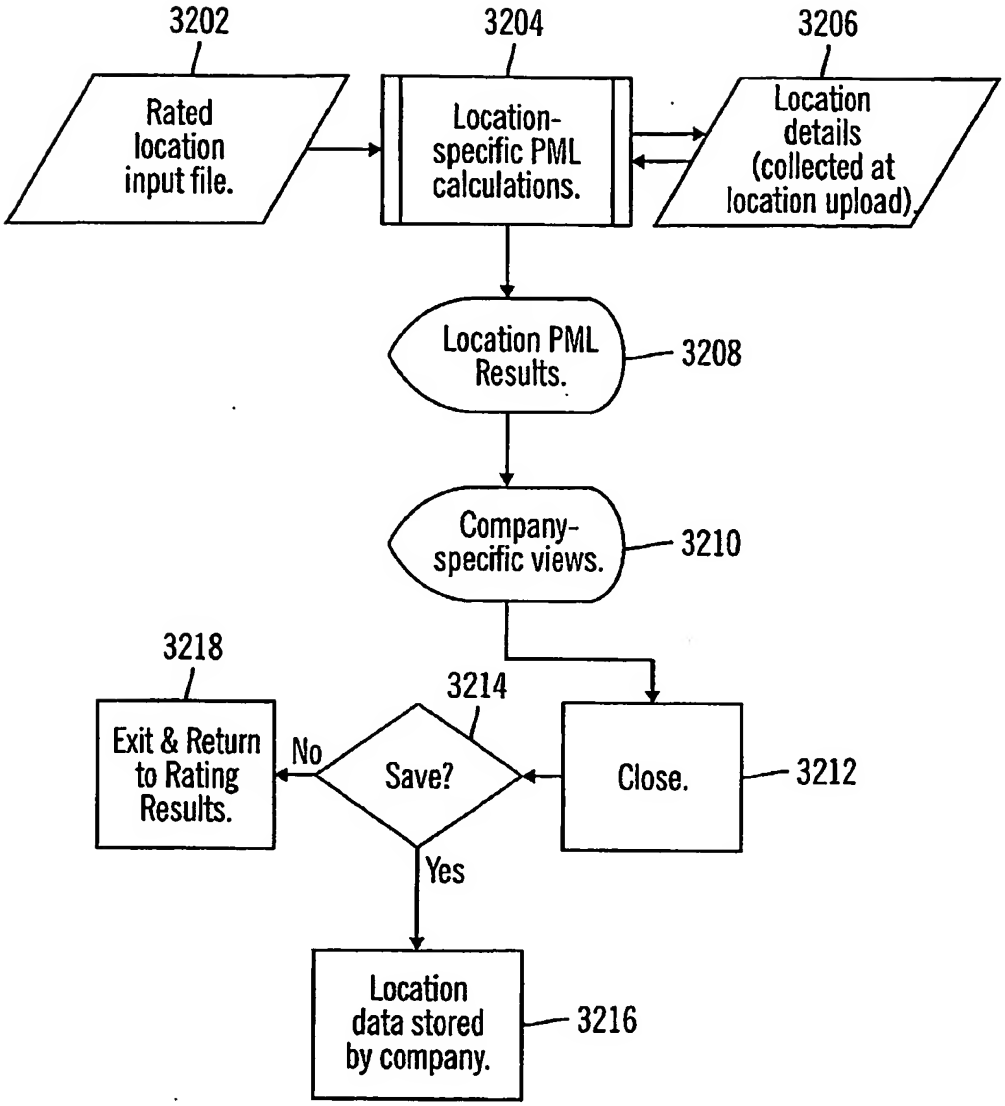

3202
3204
3206
Rated location input file.
Location-specific PML calculations.
Location details (collected at location upload)
Location PML Results.
3208
Company-specific views.
3210
3218
3214
Exit & Return to Rating Results.
No
Save?
Close.
3212
Yes
Location data stored by company.
3216

FIG. 32A

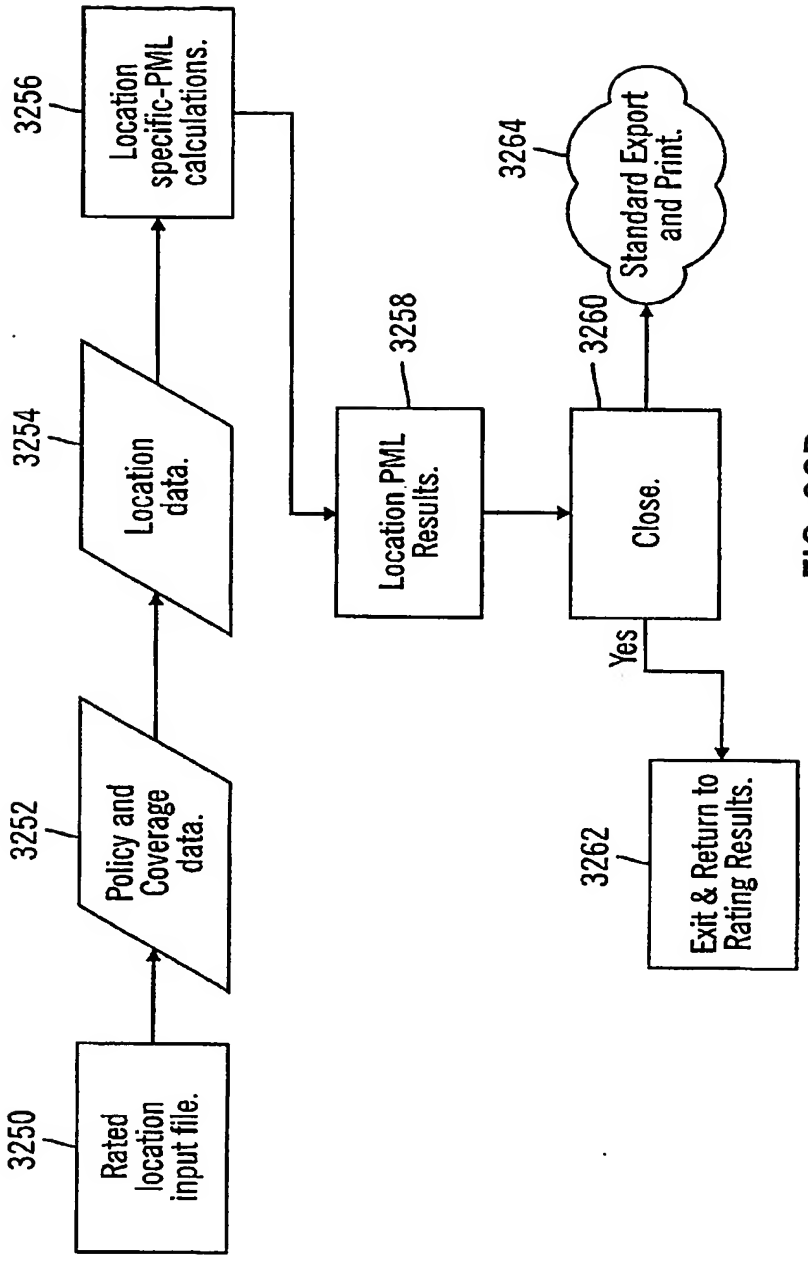

3250
Rated location input file.
3252
Policy and Coverage data.
3254
Location data.
3256
Location specific-PML calculations.
3258
Location PML Results.
3260
Close.
3262
Exit & Return to Rating Results.
3264
Standard Export and Print.
Yes

FIG. 32B

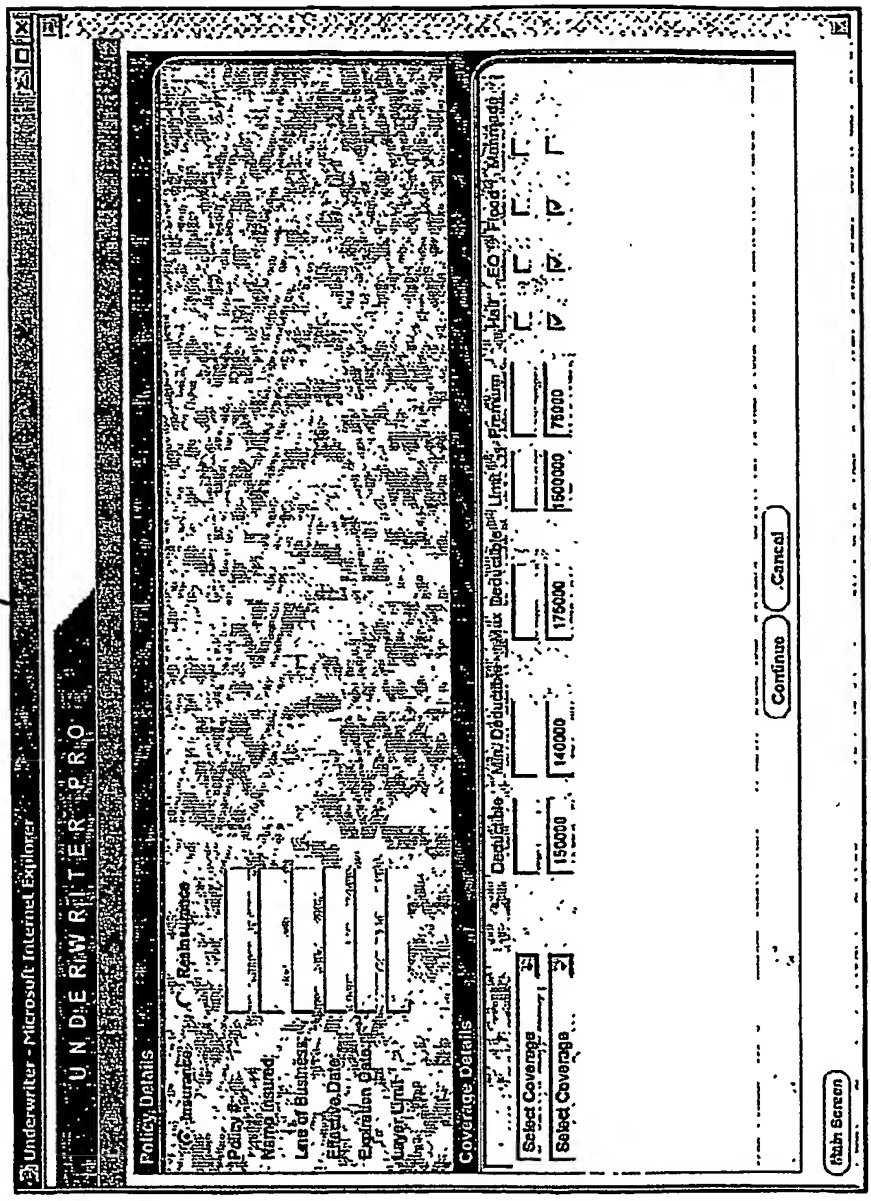

3300
Underwriter - Microsoft Internet Explorer
U N D E R W R I T E R P R O
Policy Details
Coverage Details
Continue
Cancel
Main Screen

FIG. 33

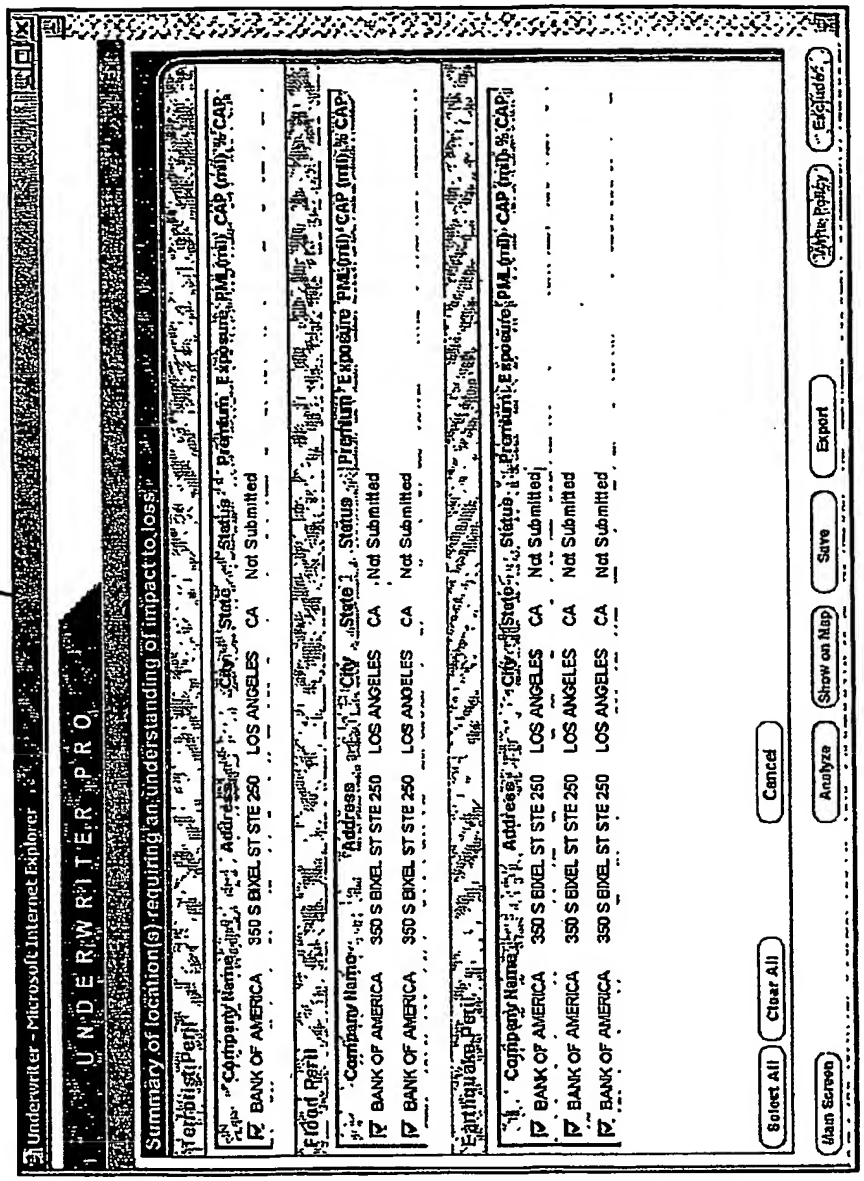

3400
Underwriter - Microsoft Internet Explorer
U N D E R W R I T E R P R O
Summary of location(s) requiring an understanding of impact to loss
Terrorism Peril
Company Name
Address
City
State
Status
Premium Exposure PML (mil)
CAP (mil)
% CAP
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Not Submitted
Flood Peril
Earthquake Peril
Select All
Clear All
Cancel
Main Screen
Analyze
Show on Map
Save
Export
Write Policy
Exclude

FIG. 34

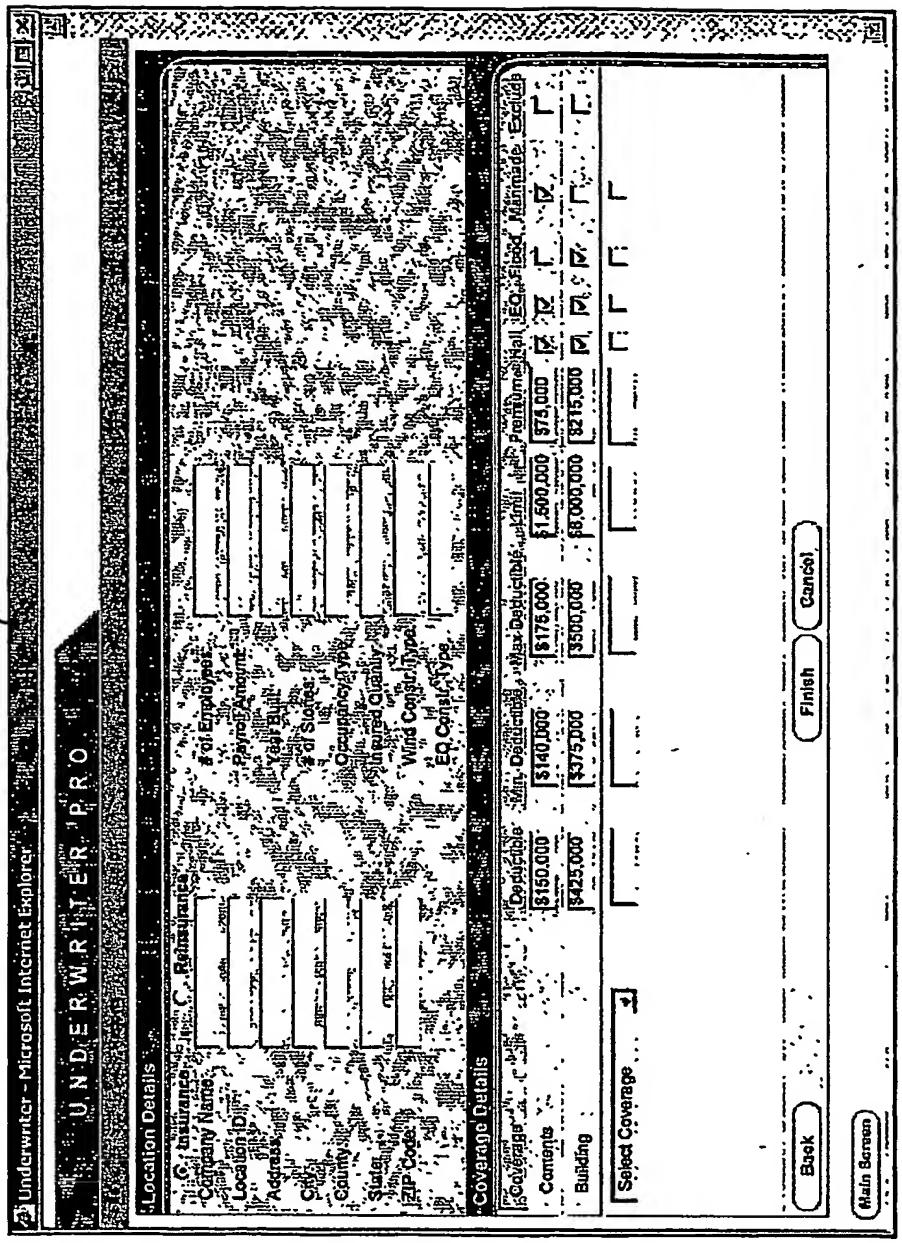

3500
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Location Details
C. Insurance
Company Name
Location ID
Address
City
County
State
ZIP Code
Coverage Details
Coverage
Contents
Building
Deductible
$150,000
$425,000
Min. Deductible
$140,000
$375,000
Max. Deductible
$175,000
$500,000
Perm Amount
$1,500,000
$8,000,000
Hail
$75,000
$215,000
EQ
Flood
Named
Excess
Select Coverage
Back
Finish
Cancel
Main Screen

FIG. 35

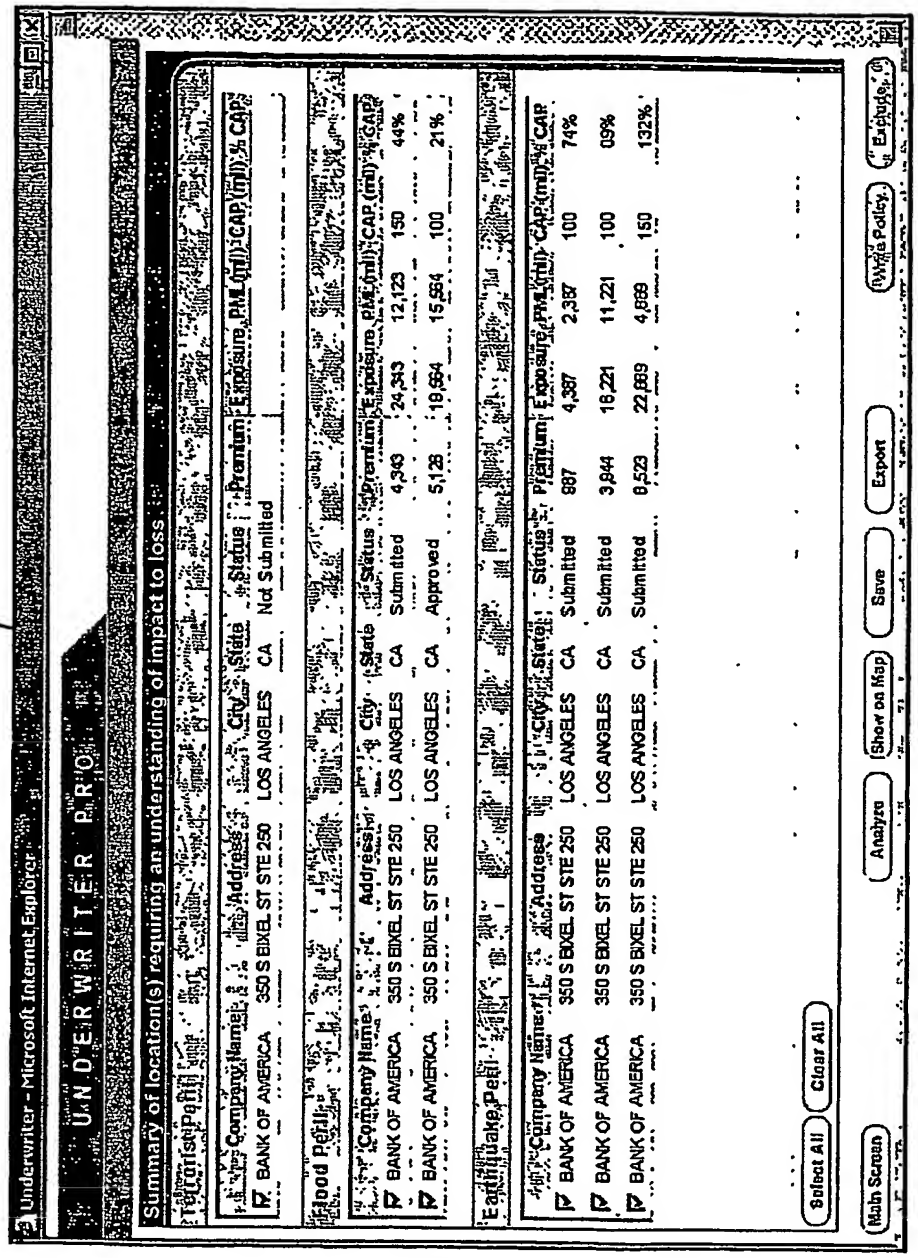

3600
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Summary of location(s) requiring an understanding of impact to loss
Terrorism Peril
Company Name
Address
City
State
Status
Premium
Exposure
PML (mil)
CAP (mil)
% CAP
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Not Submitted
Flood Peril
Company Name
Address
City
State
Status
Premium
Exposure
PML (mil)
CAP (mil)
% CAP
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Submitted
4,343
24,343
12,123
150
44%
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Approved
5,128
19,664
15,664
100
21%
Earthquake Peril
Company Name
Address
City
State
Status
Premium
Exposure
PML (mil)
CAP (mil)
% CAP
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Submitted
887
4,387
2,387
100
74%
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Submitted
3,844
18,221
11,221
100
09%
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Submitted
8,523
22,689
4,689
150
132%
Select All
Clear All
Main Screen
Analyze
Show on Map
Save
Export
Write Policy
Exposure

FIG. 36

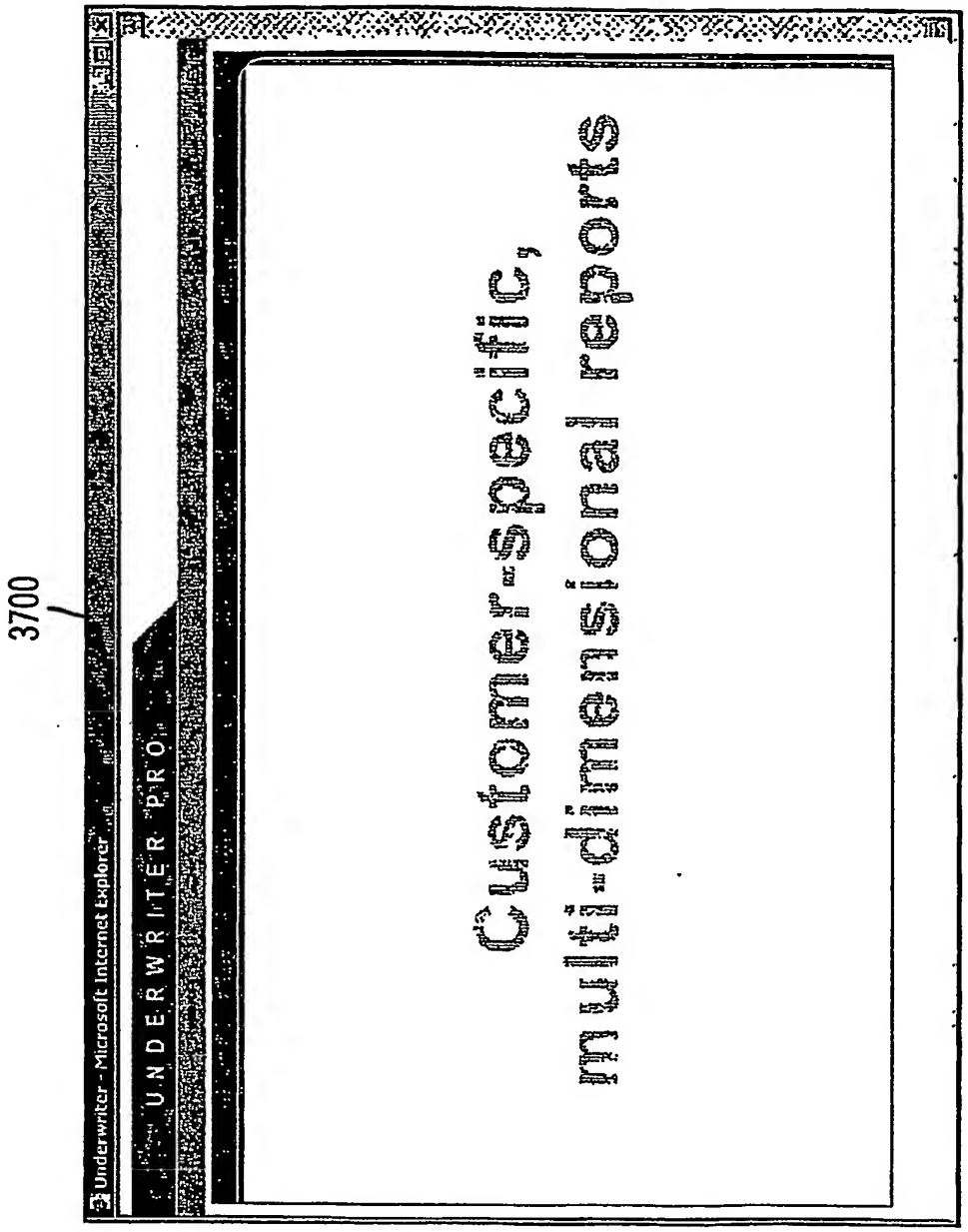

3700
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Customer-specific
multi-dimensional reports

FIG. 37

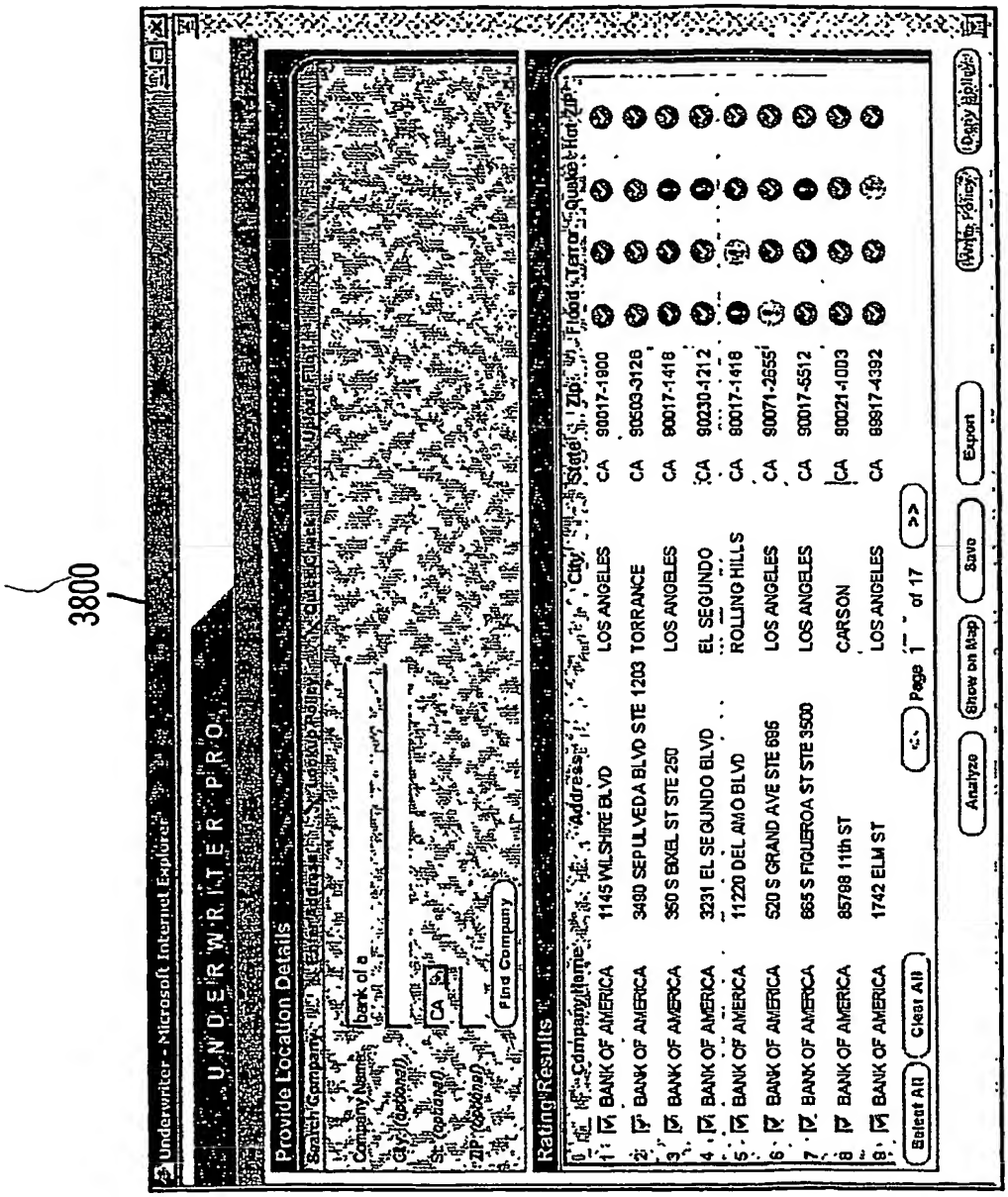

3800
Underwriter - Microsoft Internet Explorer
U N D E R W R I T E R P R O
Provide Location Details
Search Company
Company Name
bank of a
City (optional)
State (optional)
CA
ZIP (optional)
Find Company
Rating Results
Company Name
Address
City
State
Zip
Flood
Terro
Quake
Hurr
BANK OF AMERICA 1145 WILSHIRE BLVD LOS ANGELES CA 90017-1900
BANK OF AMERICA 3480 SEPULVEDA BLVD STE 1203 TORRANCE CA 90503-3128
BANK OF AMERICA 350 S BIXEL ST STE 250 LOS ANGELES CA 90017-1418
BANK OF AMERICA 3231 EL SEGUNDO BLVD EL SEGUNDO CA 90230-4212
BANK OF AMERICA 11220 DEL AMO BLVD ROLLING HILLS CA 90017-1418
BANK OF AMERICA 520 S GRAND AVE STE 695 LOS ANGELES CA 90071-2555
BANK OF AMERICA 865 S FIGUEROA ST STE 3500 LOS ANGELES CA 90017-5512
BANK OF AMERICA 85788 11th ST CARSON CA 90021-4003
BANK OF AMERICA 1742 ELM ST LOS ANGELES CA 88917-4392
Select All
Clear All
Analyze
Show on Map
Save
Export
Page 1 of 17
>>
Apply Policy
Copy Policy

FIG. 38

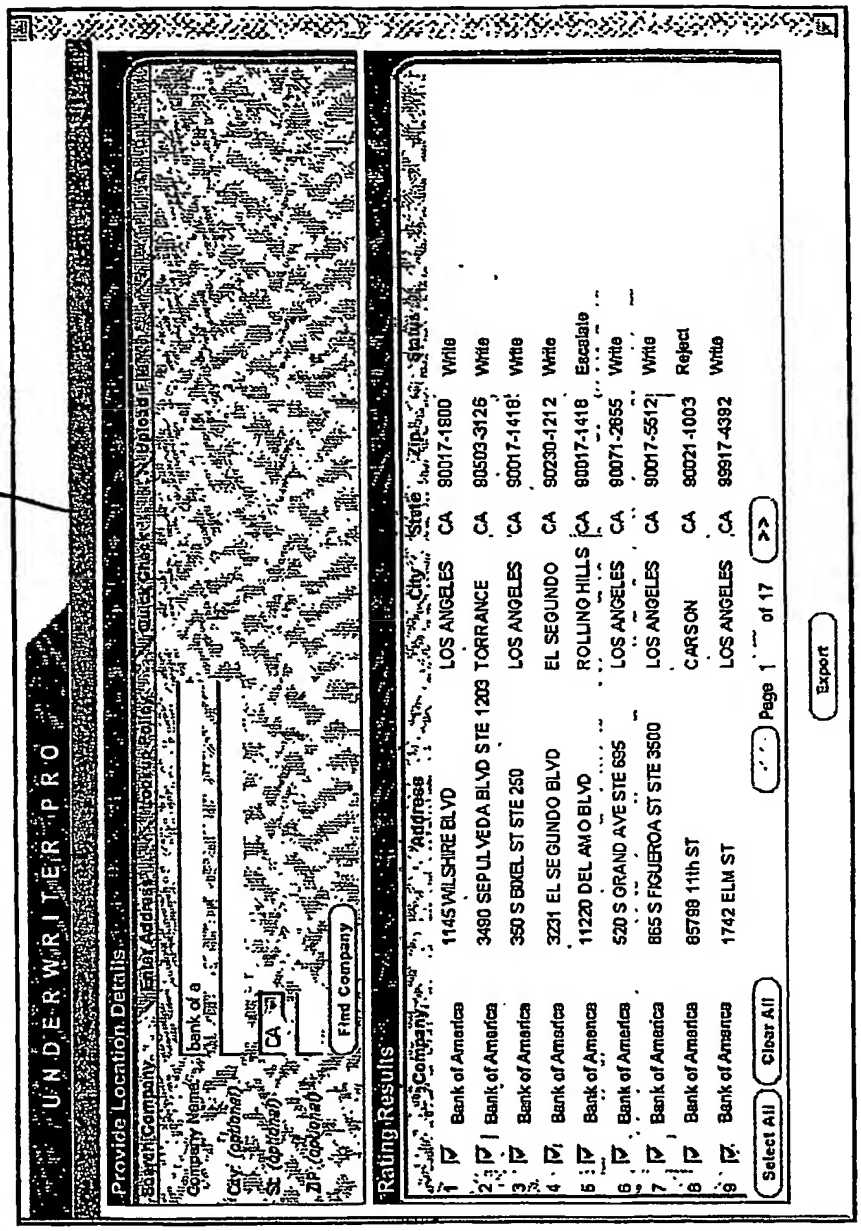

3900
UNDERWRITER PRO
Provide Location Details
Search Company
Enter Address
Company Name
bank of a
City (optional)
St (optional)
ZIP (optional)
Find Company
Rating Results
Company
Address
City
State
Zip
Status
1 Bank of America 1145 WILSHIRE BLVD LOS ANGELES CA 90017-1800 Write
2 Bank of America 3480 SEPULVEDA BLVD STE 1203 TORRANCE CA 90503-3126 Write
3 Bank of America 350 S BIXEL ST STE 250 LOS ANGELES CA 90017-1418 Write
4 Bank of America 3231 EL SEGUNDO BLVD EL SEGUNDO CA 90230-1212 Write
5 Bank of America 11220 DEL AMO BLVD ROLLING HILLS CA 90017-1418 Escalate
6 Bank of America 520 S GRAND AVE STE 695 LOS ANGELES CA 90071-2855 Write
7 Bank of America 865 S FIGUEROA ST STE 3500 LOS ANGELES CA 90017-5512 Write
8 Bank of America 65788 11th ST CARSON CA 90021-1003 Reject
9 Bank of America 1742 ELM ST LOS ANGELES CA 93917-4382 Write
Select All
Clear All
Page 1 of 17
>>
Export

FIG. 39

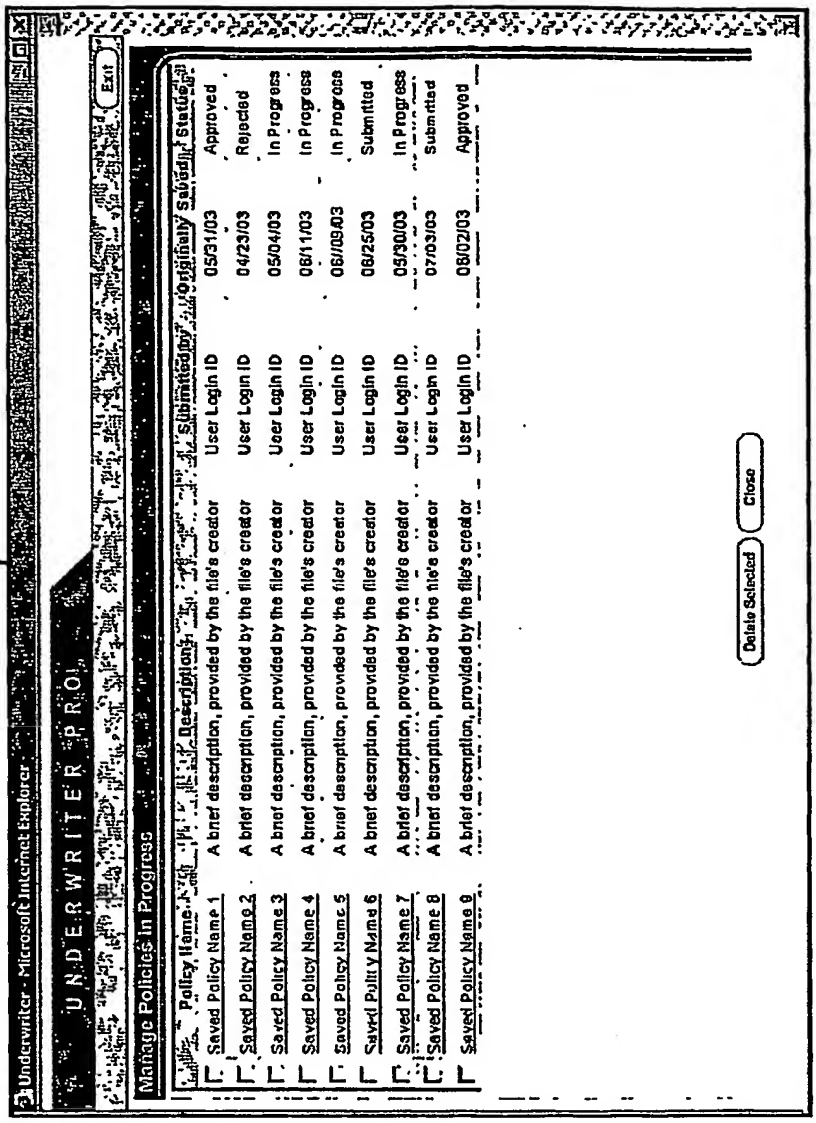

4000
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Exit
Manage Policies in Progress
Policy Name
Description
Submitted by
Originally Saved
Status
Saved Policy Name 1
A brief description, provided by the file's creator
User Login ID
05/31/03
Approved
Saved Policy Name 2
A brief description, provided by the file's creator
User Login ID
04/23/03
Rejected
Saved Policy Name 3
A brief description, provided by the file's creator
User Login ID
05/04/03
In Progress
Saved Policy Name 4
A brief description, provided by the file's creator
User Login ID
06/11/03
In Progress
Saved Policy Name 5
A brief description, provided by the file's creator
User Login ID
06/09/03
In Progress
Saved Policy Name 6
A brief description, provided by the file's creator
User Login ID
06/25/03
Submitted
Saved Policy Name 7
A brief description, provided by the file's creator
User Login ID
05/30/03
In Progress
Saved Policy Name 8
A brief description, provided by the file's creator
User Login ID
07/03/03
Submitted
Saved Policy Name 9
A brief description, provided by the file's creator
User Login ID
06/02/03
Approved
Delete Selected
Close

FIG. 40

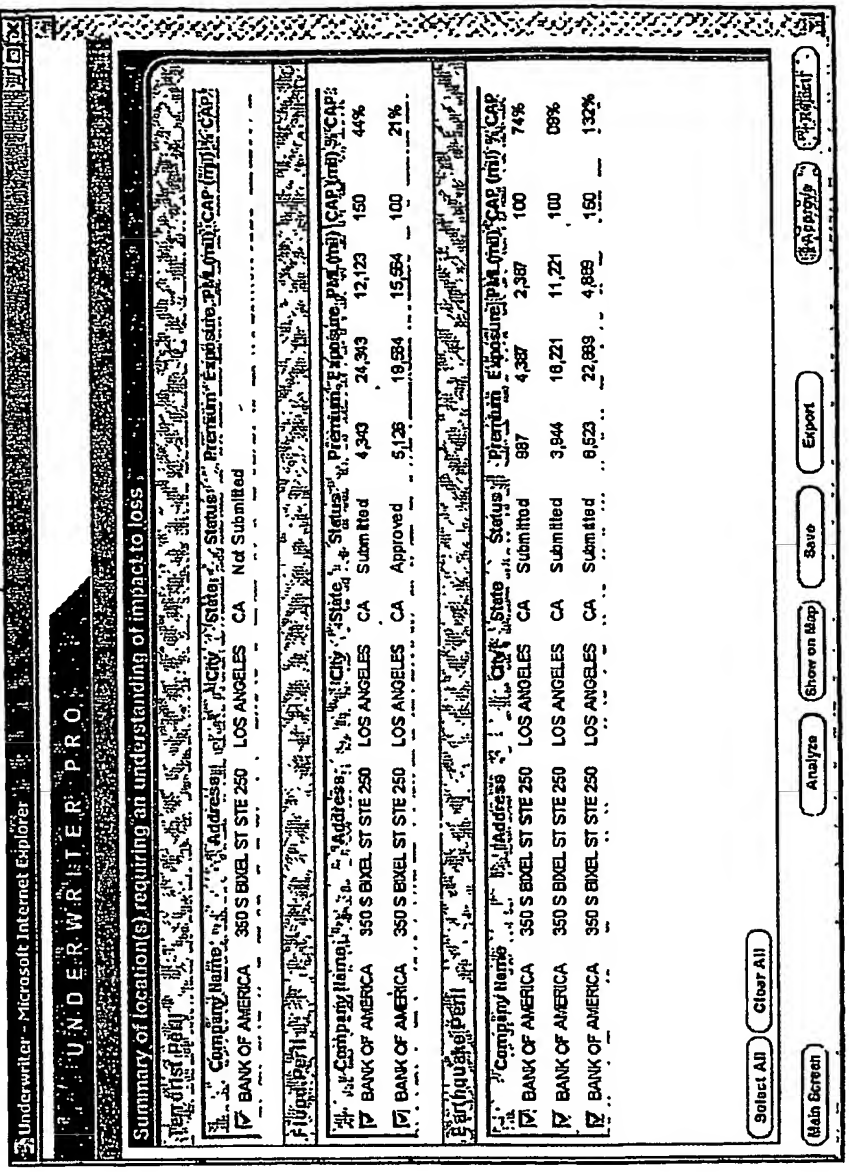

4100
Underwriter - Microsoft Internet Explorer
U N D E R W R I T E R P R O
Summary of location(s) requiring an understanding of impact to loss
Company Name
Address
City
State
Status
Premium Exposure
PML (mil)
CAP (mil)
% CAP
BANK OF AMERICA
350 S BIXEL ST STE 250
LOS ANGELES
CA
Not Submitted
Submitted
Approved
4,343
24,343
12,123
150
44%
5,128
19,584
15,584
100
21%
887
4,387
2,387
100
74%
3,944
18,221
11,221
100
89%
6,523
22,889
4,889
150
132%
Select All
Clear All
Analyze
Show on Map
Save
Export
Main Screen

FIG. 41

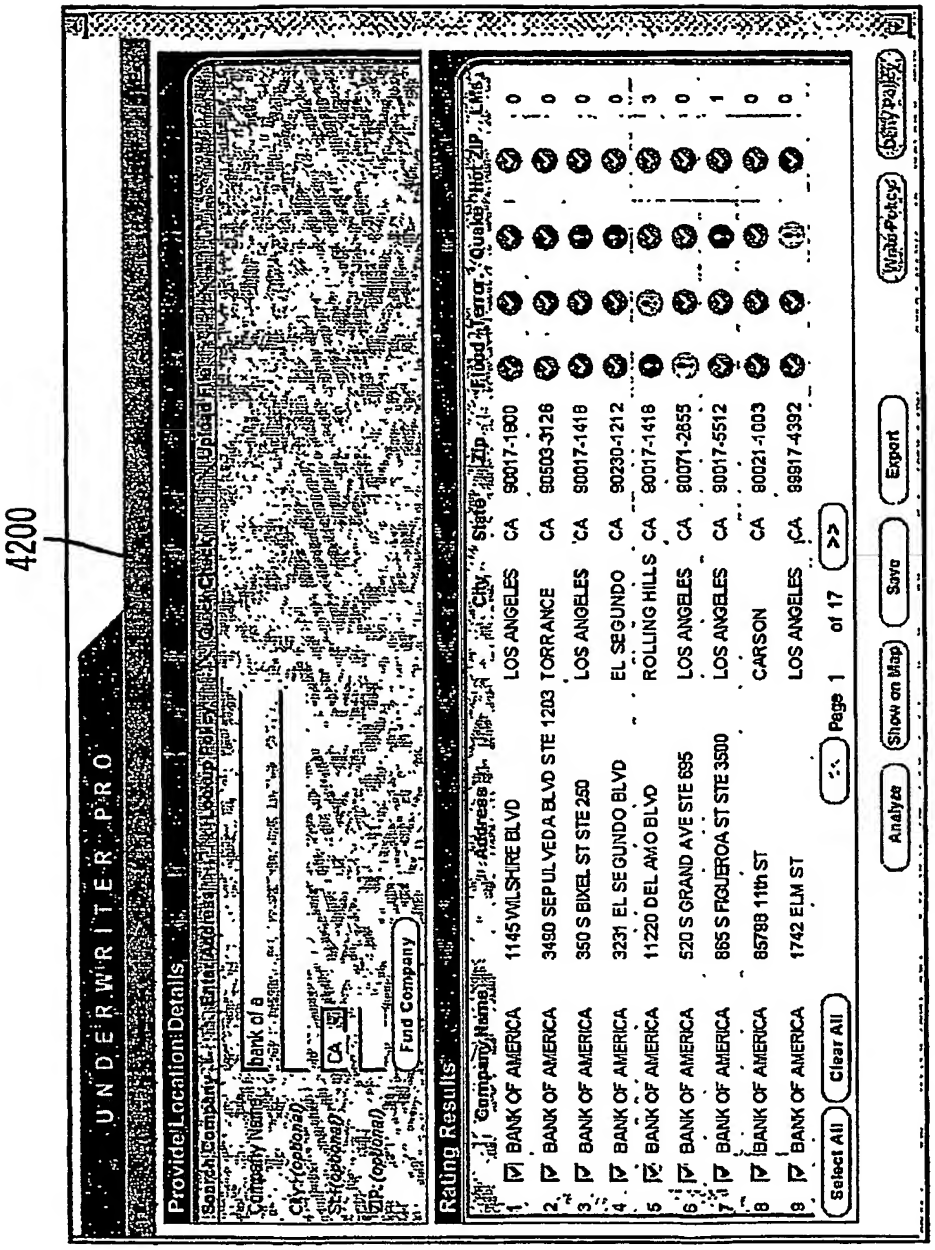

4200
UNDERWRITER PRO
Provide Location Details
Search Company
Enter Address
Quake Check
Upload File
Company Name
bank of a
City (optional)
CA
State
ZIP (optional)
Find Company
Rating Results
Company Name
Address
City
State
ZIP
Flood
Terror
Quake
Hail
BANK OF AMERICA 1145 WILSHIRE BLVD LOS ANGELES CA 90017-1900
BANK OF AMERICA 3450 SEPULVEDA BLVD STE 1203 TORRANCE CA 90503-3128
BANK OF AMERICA 350 S BIXEL ST STE 250 LOS ANGELES CA 90017-1418
BANK OF AMERICA 3231 EL SEGUNDO BLVD EL SEGUNDO CA 90230-1212
BANK OF AMERICA 11220 DEL AMO BLVD ROLLING HILLS CA 90017-1416
BANK OF AMERICA 520 S GRAND AVE STE 695 LOS ANGELES CA 90071-2855
BANK OF AMERICA 865 S FIGUEROA ST STE 3500 LOS ANGELES CA 90017-5512
BANK OF AMERICA 85788 11th ST CARSON CA 90021-1003
BANK OF AMERICA 1742 ELM ST LOS ANGELES CA 98917-4392
Select All
Clear All
Analyze
Show on Map
Save
Export
Web Policy
Policy
Page 1 of 17
>>

FIG. 42

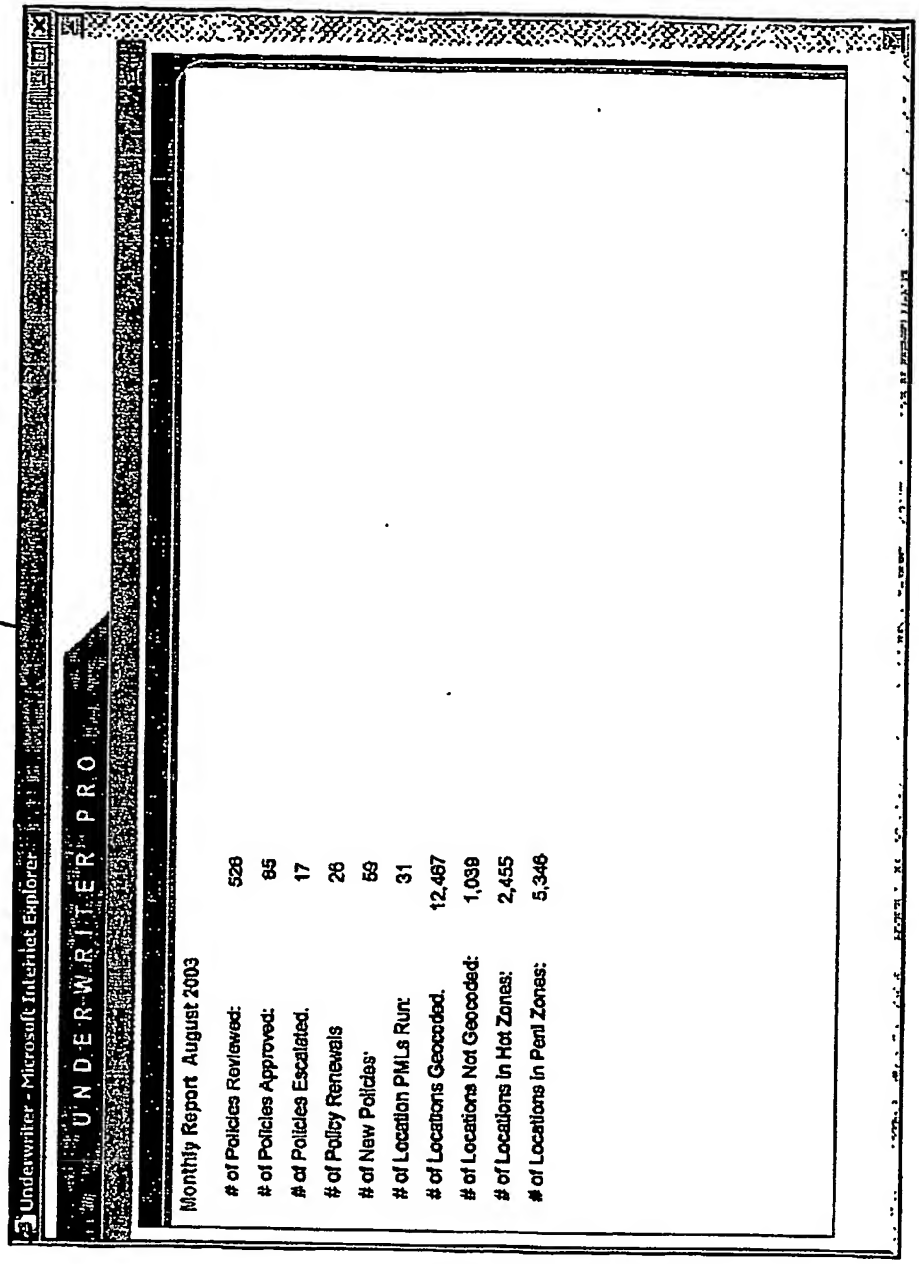

4300
Underwriter - Microsoft Internet Explorer
UNDERWRITER PRO
Monthly Report August 2003
# of Policies Reviewed: 526
# of Policies Approved: 85
# of Policies Escalated. 17
# of Policy Renewals 26
# of New Policies: 59
# of Location PMLs Run: 31
# of Locations Geocoded. 12,467
# of Locations Not Geocoded: 1,039
# of Locations in Hot Zones: 2,455
# of Locations in Peril Zones: 5,346

FIG. 43

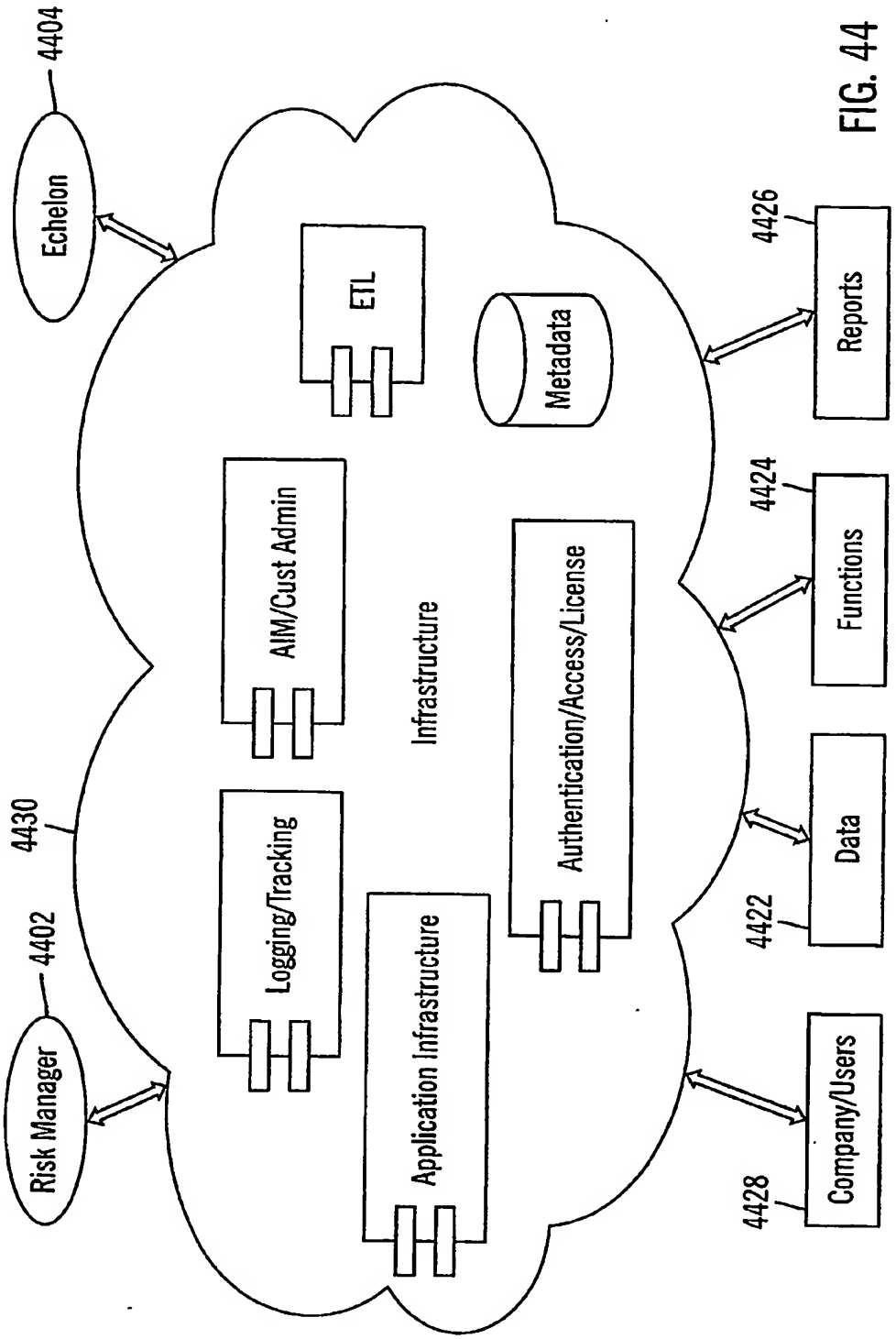

4404
Echelon
4402
Risk Manager
4430
ETL
Metadata
AIM/Cust Admin
Infrastructure
Authentication/Access/License
Logging/Tracking
Application Infrastructure
4426
Reports
4424
Functions
4422
Data
4428
Company/Users

FIG. 44

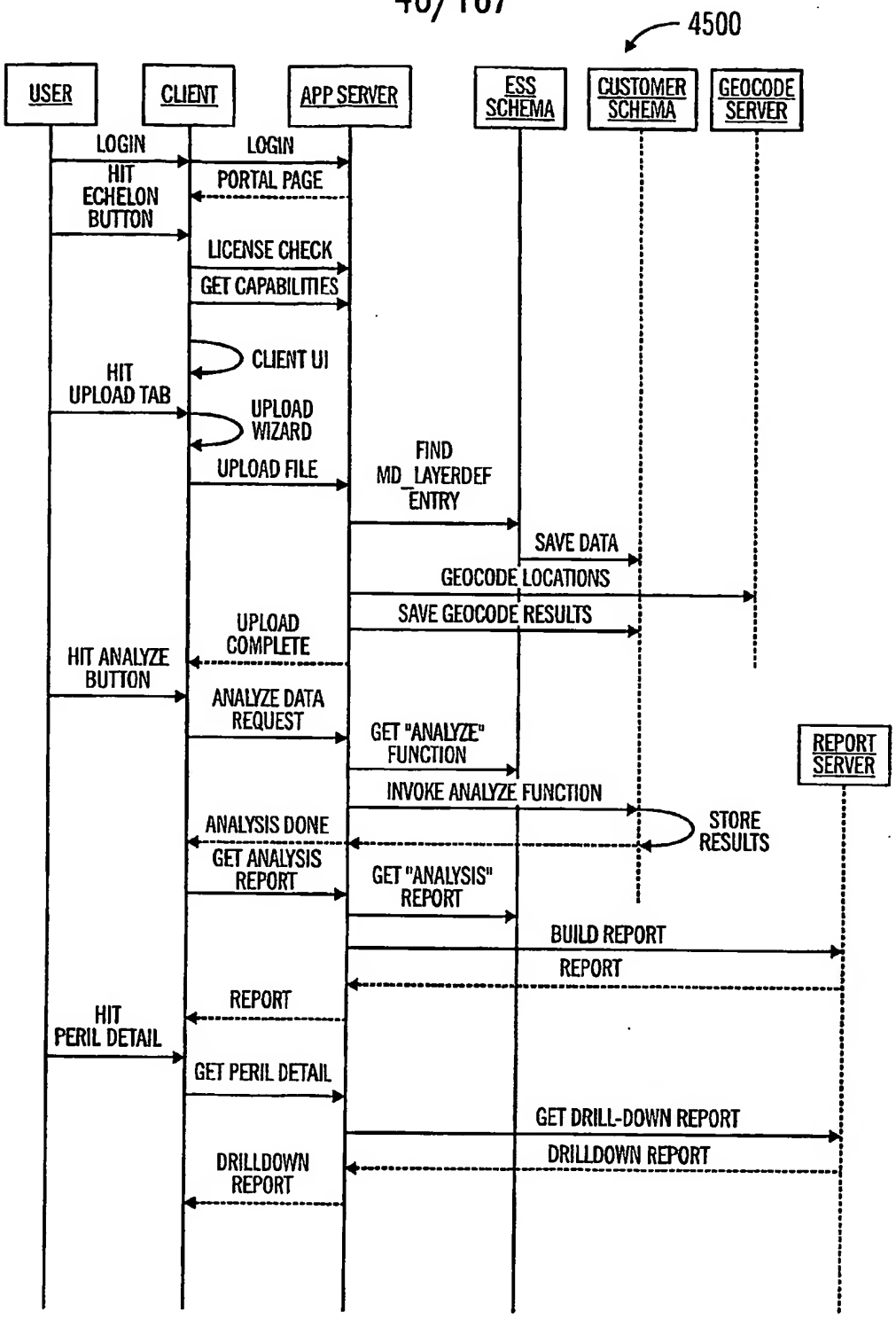
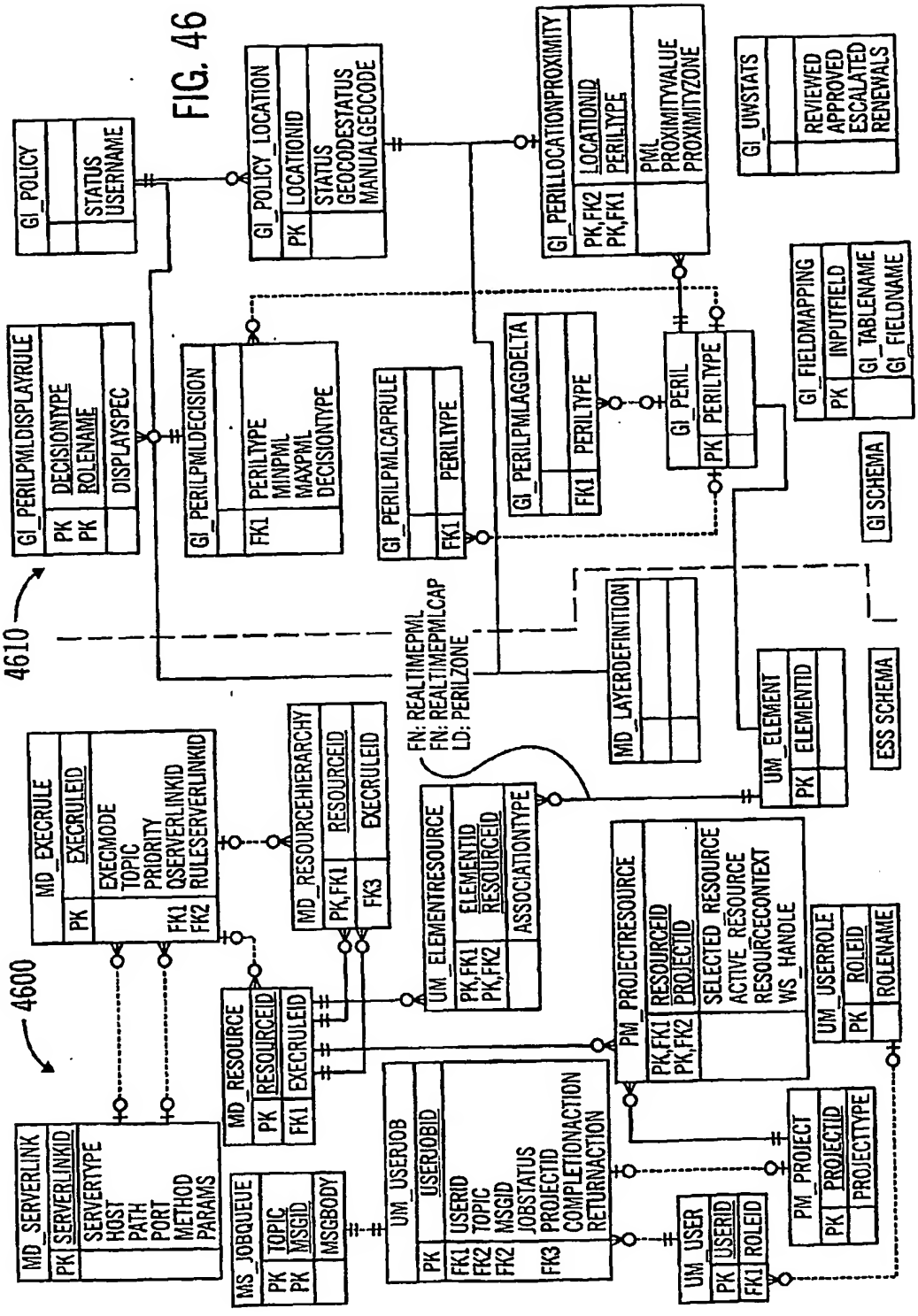

4500
USER
CLIENT
APP SERVER
ESS SCHEMA
CUSTOMER SCHEMA
GEOCODE SERVER
REPORT SERVER
LOGIN
LOGIN
PORTAL PAGE
HIT ECHELON BUTTON
LICENSE CHECK
GET CAPABILITIES
CLIENT UI
HIT UPLOAD TAB
UPLOAD WIZARD
UPLOAD FILE
FIND MD_LAYERDEF ENTRY
SAVE DATA
GEOCODE LOCATIONS
SAVE GEOCODE RESULTS
UPLOAD COMPLETE
HIT ANALYZE BUTTON
ANALYZE DATA REQUEST
GET "ANALYZE" FUNCTION
INVOKE ANALYZE FUNCTION
STORE RESULTS
ANALYSIS DONE
GET ANALYSIS REPORT
GET "ANALYSIS" REPORT
BUILD REPORT
REPORT
REPORT
HIT PERIL DETAIL
GET PERIL DETAIL
GET DRILL-DOWN REPORT
DRILLDOWN REPORT
DRILLDOWN REPORT

FIG. 45

FIG. 46


GI_POLICY
STATUS
USERNAME
GI_POLICY_LOCATION
PK LOCATIONID
STATUS
GEOCODESTATUS
MANUALGEOCODE
GI_PERILLOCATIONPROXIMITY
PK,FK2 LOCATIONID
PK,FK1 PERILTYPE
PML
PROXIMITYVALUE
PROXIMITYZONE
GI_UWSTATS
REVIEWED
APPROVED
ESCALATED
RENEWALS
GI_PERILPMLDISPLAYRULE
PK DECISIONTYPE
PK ROLENAME
DISPLAYSPEC
GI_PERILPMLDECISION
FK1 PERILTYPE
MINPML
MAXPML
DECISIONTYPE
GI_PERILPMLCAPRULE
FK1 PERILTYPE
GI_PERILPMLAGGDELTA
FK1 PERILTYPE
GI_PERIL
PK PERILTYPE
GI_FIELDMAPPING
PK INPUTFIELD
GI_TABLENAME
GI_FIELDNAME
GI SCHEMA
4610
FN: REALTIMEPML
FN: REALTIMEPMLCAP
LD: PERILZONE
MD_LAYERDEFINITION
UM_ELEMENT
PK ELEMENTID
ESS SCHEMA
MD_EXECRULE
PK EXECRULEID
EXECMODE
TOPIC
PRIORITY
QSERVERLINKID
RULESERVERLINKID
FK1
FK2
MD_RESOURCEHIERARCHY
PK,FK1 RESOURCEID
FK3 EXECRULEID
UM_ELEMENTRESOURCE
PK,FK1 ELEMENTID
PK,FK2 RESOURCEID
ASSOCIATIONTYPE
PM_PROJECTRESOURCE
PK,FK1 RESOURCEID
PK,FK2 PROJECTID
SELECTED_RESOURCE
ACTIVE_RESOURCE
RESOURCECONTEXT
WS_HANDLE
UM_USERROLE
PK ROLEID
ROLENAME
4600
MD_SERVERLINK
PK SERVERLINKID
SERVERTYPE
HOST
PATH
PORT
METHOD
PARAMS
MD_RESOURCE
PK RESOURCEID
FK1 EXECRULEID
MS_JOBQUEUE
PK TOPIC
PK MSGID
MSGBODY
UM_USERJOB
PK USERJOBID
FK1 USERID
FK2 TOPIC
FK2 MSGID
JOBSTATUS
FK3 PROJECTID
COMPLETIONACTION
RETURNACTION
UM_USER
PK USERID
FK1 ROLEID
PM_PROJECT
PK PROJECTID
PROJECTTYPE

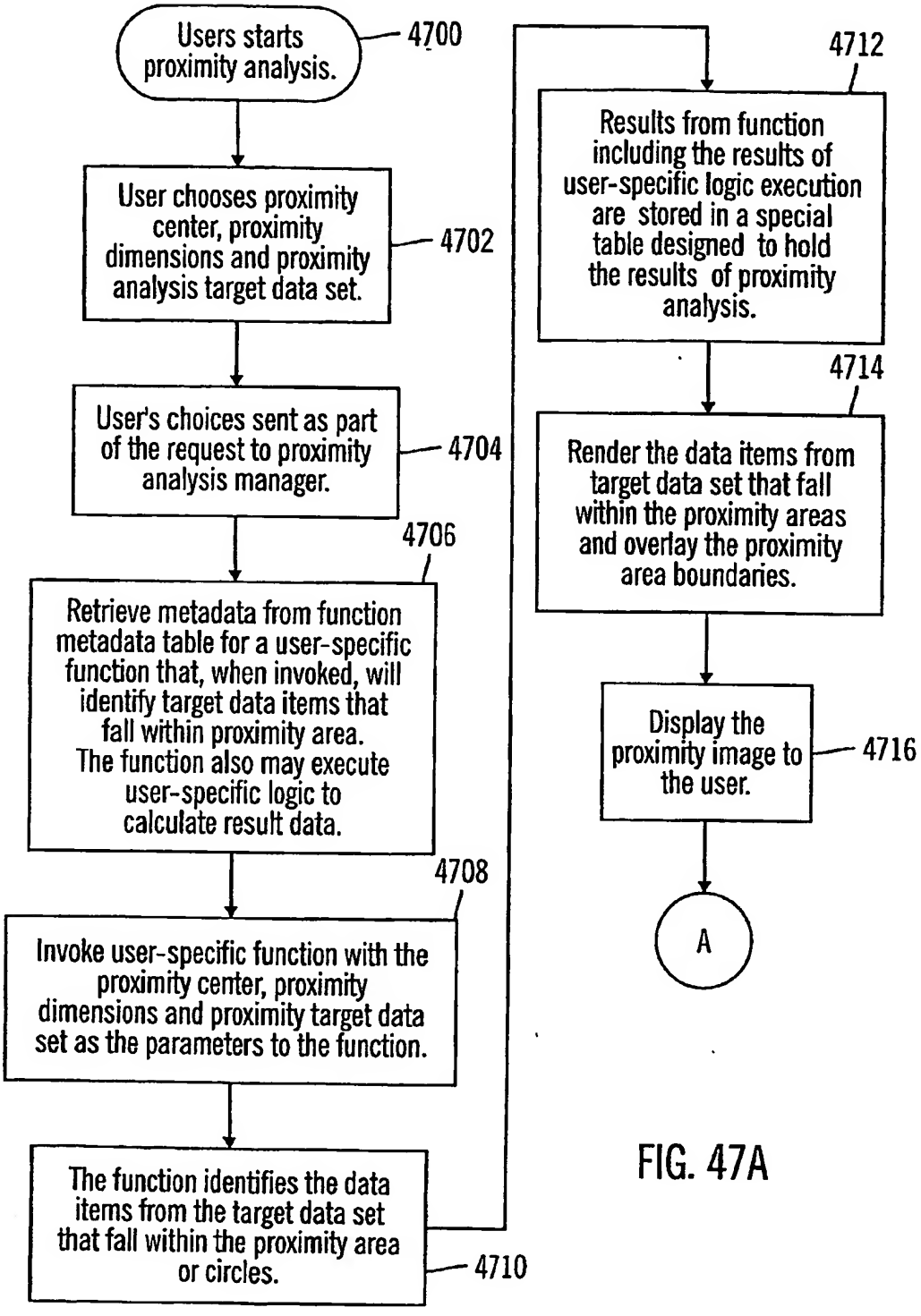

Users starts proximity analysis.
4700
User chooses proximity center, proximity dimensions and proximity analysis target data set.
4702
User's choices sent as part of the request to proximity analysis manager.
4704
4706
Retrieve metadata from function metadata table for a user-specific function that, when invoked, will identify target data items that fall within proximity area. The function also may execute user-specific logic to calculate result data.
4708
Invoke user-specific function with the proximity center, proximity dimensions and proximity target data set as the parameters to the function.
The function identifies the data items from the target data set that fall within the proximity area or circles.
4710
4712
Results from function including the results of user-specific logic execution are stored in a special table designed to hold the results of proximity analysis.
4714
Render the data items from target data set that fall within the proximity areas and overlay the proximity area boundaries.
Display the proximity image to the user.
4716
A

FIG. 47A

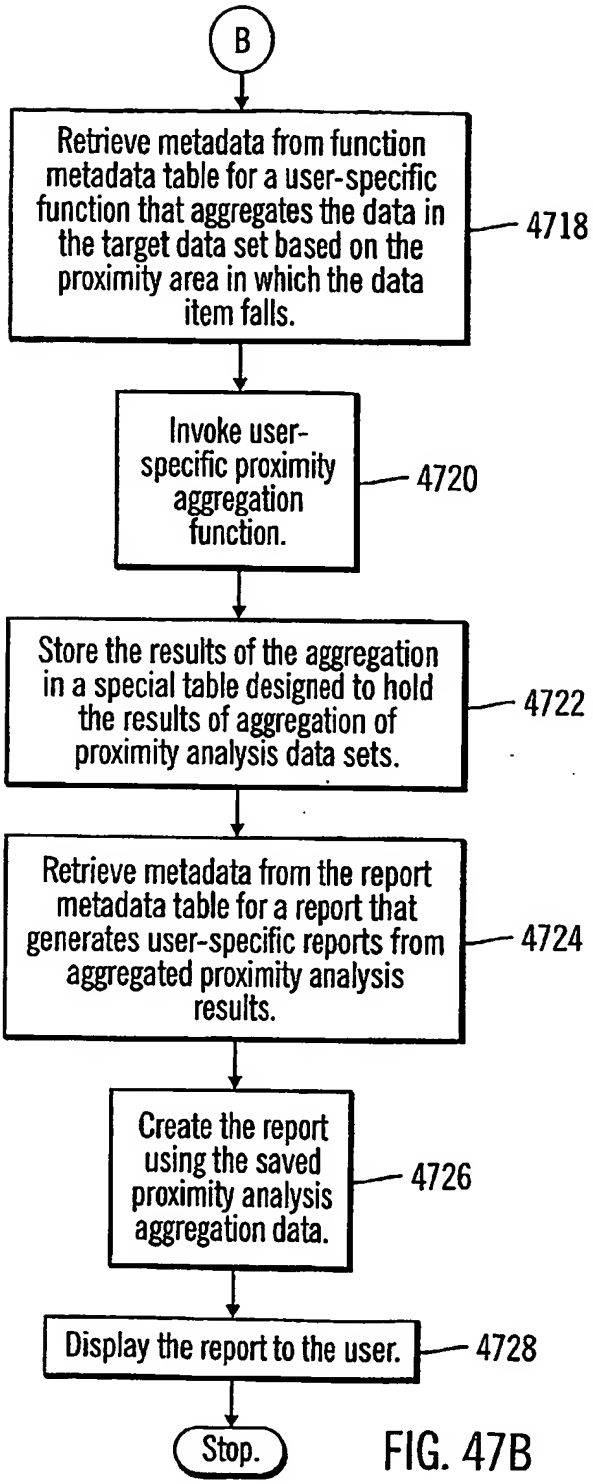

B
Retrieve metadata from function metadata table for a user-specific function that aggregates the data in the target data set based on the proximity area in which the data item falls.
4718
Invoke user-specific proximity aggregation function.
4720
Store the results of the aggregation in a special table designed to hold the results of aggregation of proximity analysis data sets.
4722
Retrieve metadata from the report metadata table for a report that generates user-specific reports from aggregated proximity analysis results.
4724
Create the report using the saved proximity analysis aggregation data.
4726
Display the report to the user.
4728
Stop.

FIG. 47B

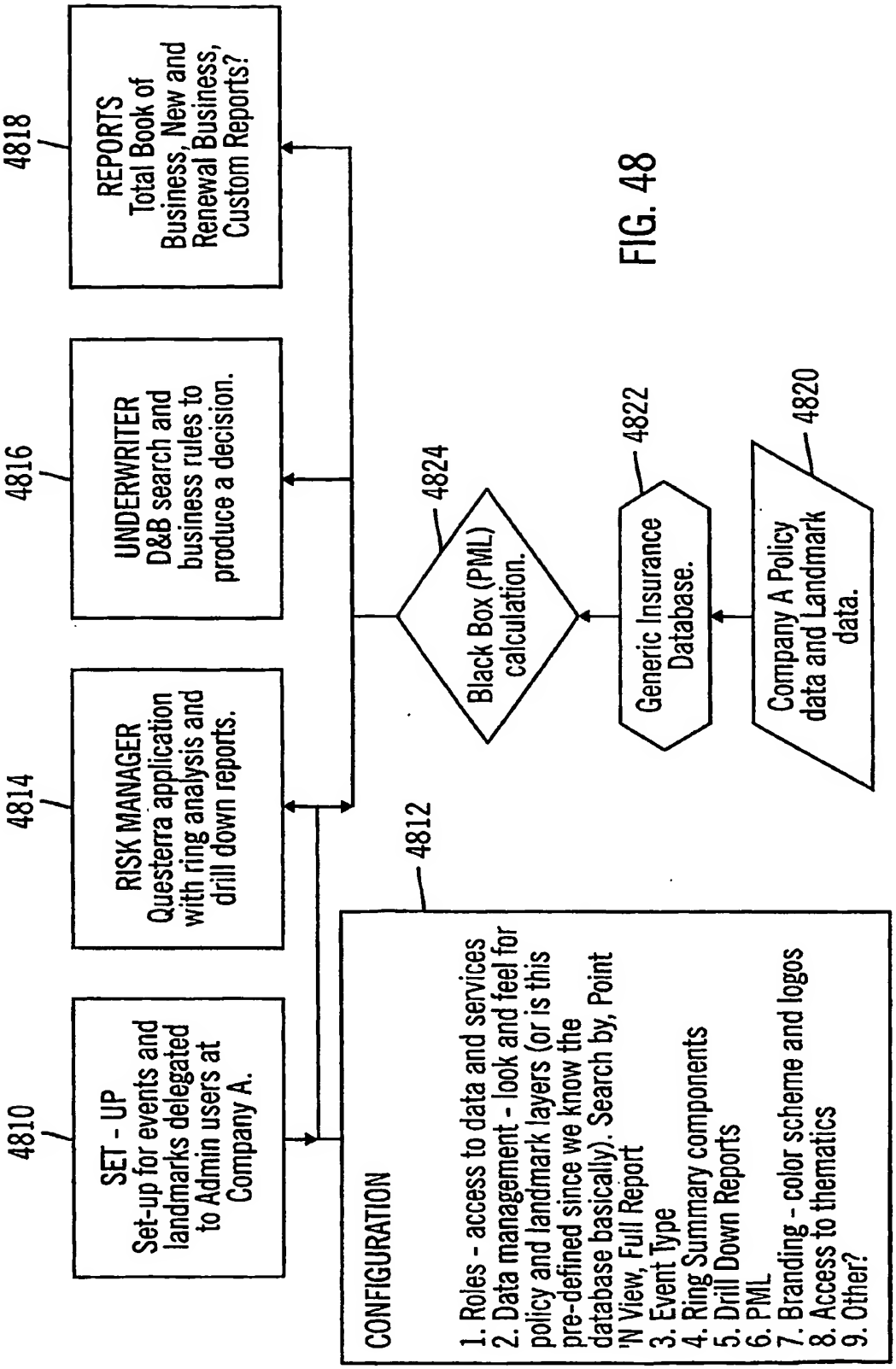

4818
REPORTS
Total Book of Business, New and Renewal Business, Custom Reports?
4816
UNDERWRITER
D&B search and business rules to produce a decision.
4814
RISK MANAGER
Questerra application with ring analysis and drill down reports.
4810
SET - UP
Set-up for events and landmarks delegated to Admin users at Company A.
4824
Black Box (PML) calculation.
4822
Generic Insurance Database.
4820
Company A Policy data and Landmark data.
4812
CONFIGURATION
1. Roles - access to data and services
2. Data management - look and feel for policy and landmark layers (or is this pre-defined since we know the database basically). Search by, Point 'N View, Full Report
3. Event Type
4. Ring Summary components
5. Drill Down Reports
6. PML
7. Branding - color scheme and logos
8. Access to thematics
9. Other?

FIG. 48

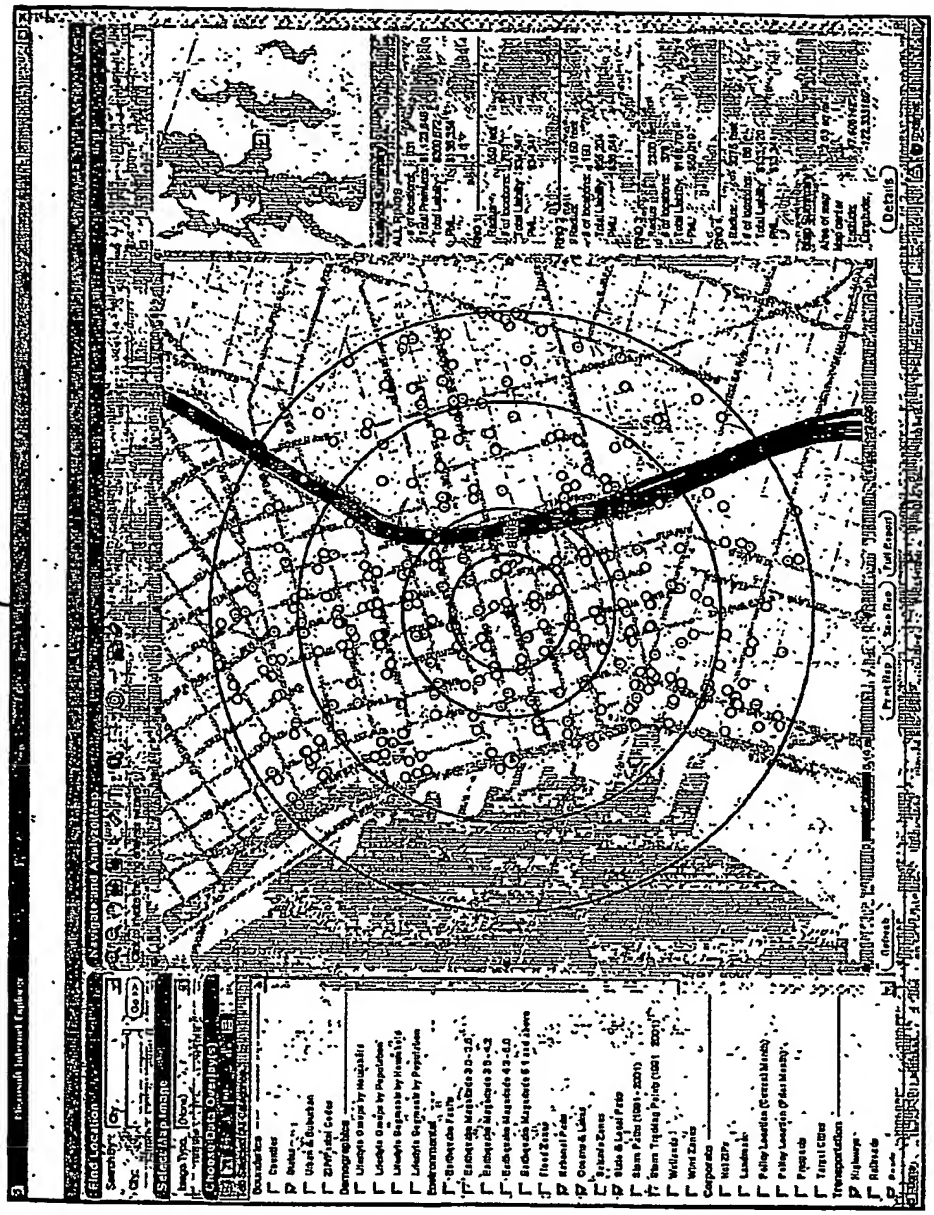


FIG. 49

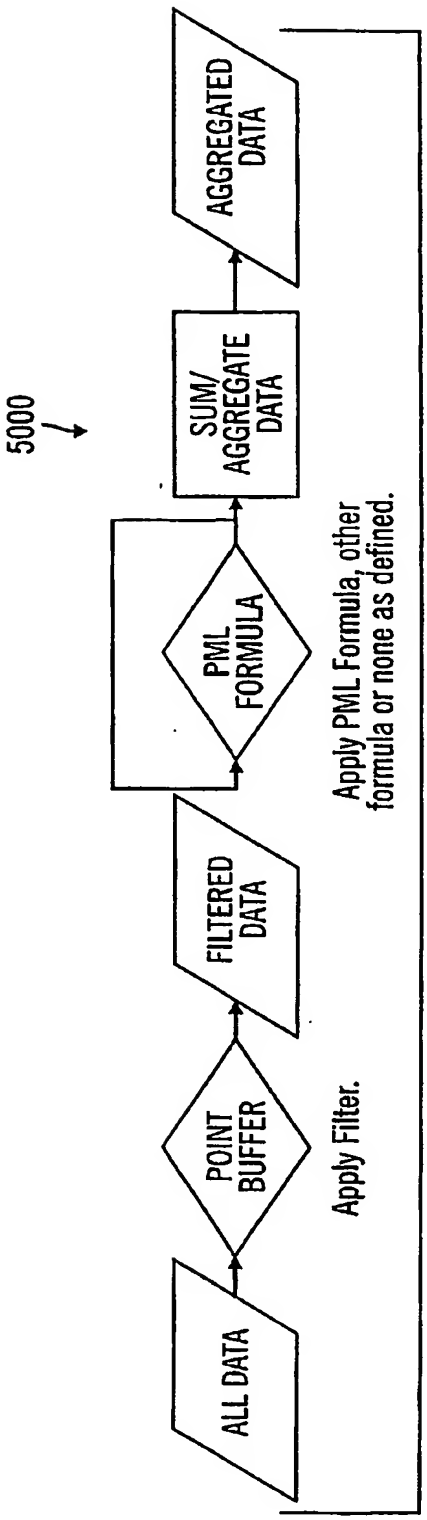

5000
ALL DATA
POINT BUFFER
FILTERED DATA
PML FORMULA
SUM/ AGGREGATE DATA
AGGREGATED DATA
Apply Filter.
Apply PML Formula, other formula or none as defined.

FIG. 50

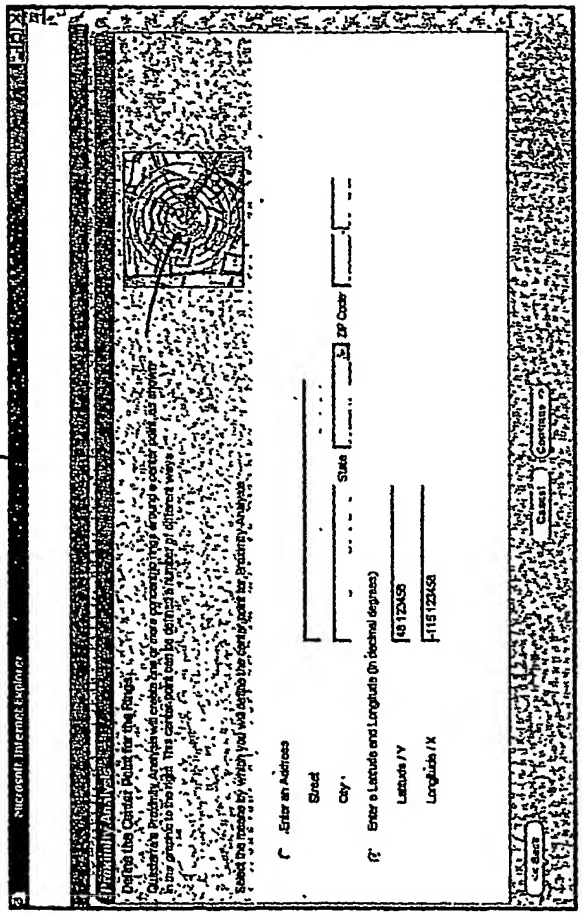

5100
Define the Central Point for the Proximity Analysis
Enter an Address
Street
City
State
ZIP Code
Enter a Latitude and Longitude (in decimal degrees)
Latitude / Y
Longitude / X
-118.122458

FIG. 51

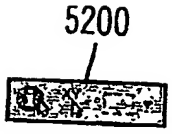


FIG. 52

57/187

5300
Microsoft Internet Explorer
Choose Data Overlays
View Layers
Boundaries
County Sample
State Sample
States
Urban & Suburban
Demographics
Environmental
Oceans & Lakes
Corporate
Print Map
Save Map
Full Report
Refresh

FIG. 53

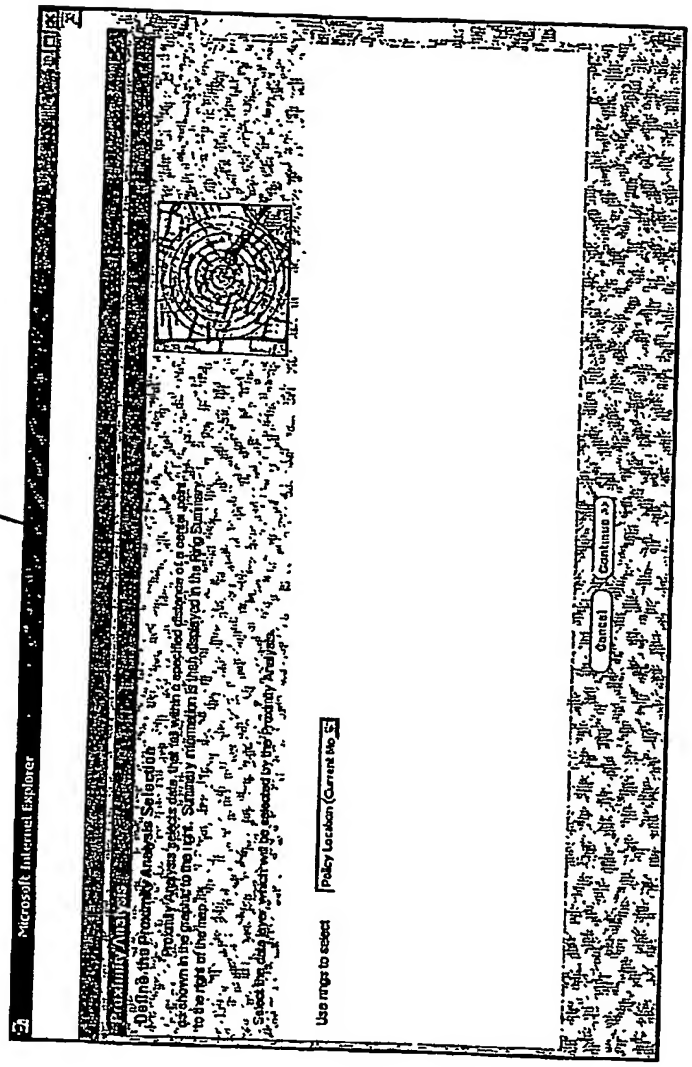

5400
Microsoft Internet Explorer
Proximity Analysis
Use map to select
Policy Location (Current No. 5)
Cancel
Continue >>

FIG. 54

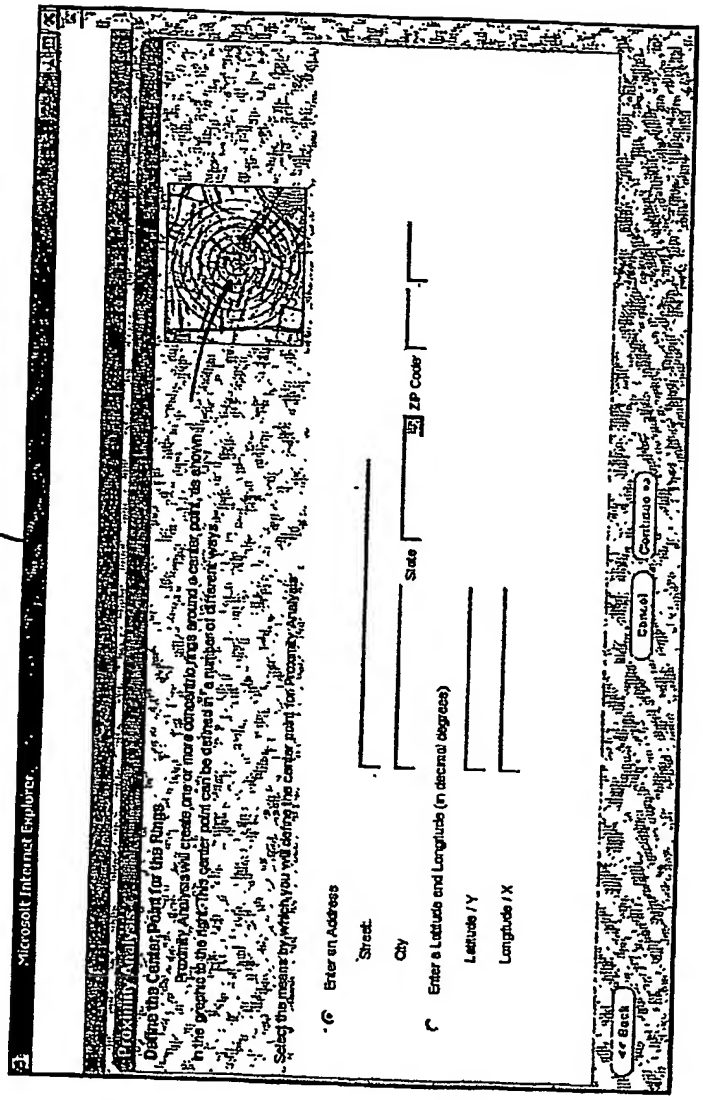

5500
Microsoft Internet Explorer
Proximity Analysis
Define the Center Point for this Range
Proximity Analysis will create one or more concentric rings around a center point, as shown in the graphic to the right. The center point can be defined in a number of different ways.
Select the method you will define the center point for Proximity Analysis:
Enter an Address
Street:
City
State
ZIP Code
Enter a Latitude and Longitude (in decimal degrees)
Latitude / Y
Longitude / X
Cancel
Continue >>
<< Back

FIG. 55

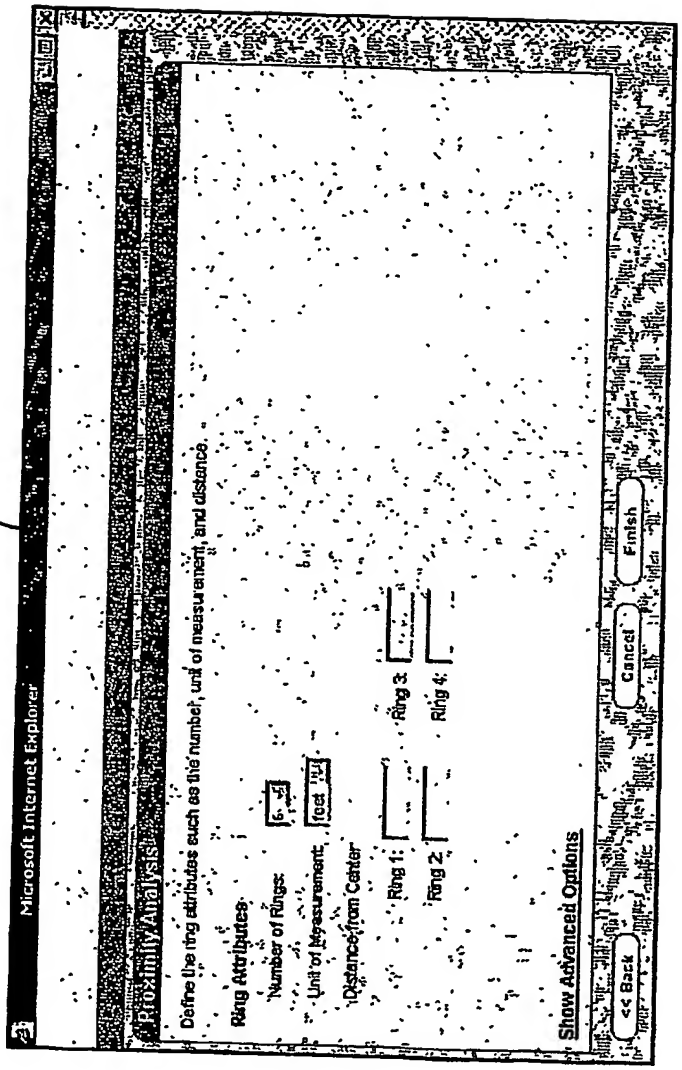

5600
Microsoft Internet Explorer
Proximity Analysis
Define the ring attributes such as the number, unit of measurement, and distance.
Ring Attributes
Number of Rings:
Unit of Measurement:
feet
Distance from Center
Ring 1:
Ring 2:
Ring 3:
Ring 4:
Show Advanced Options
<< Back
Cancel
Finish

FIG. 56

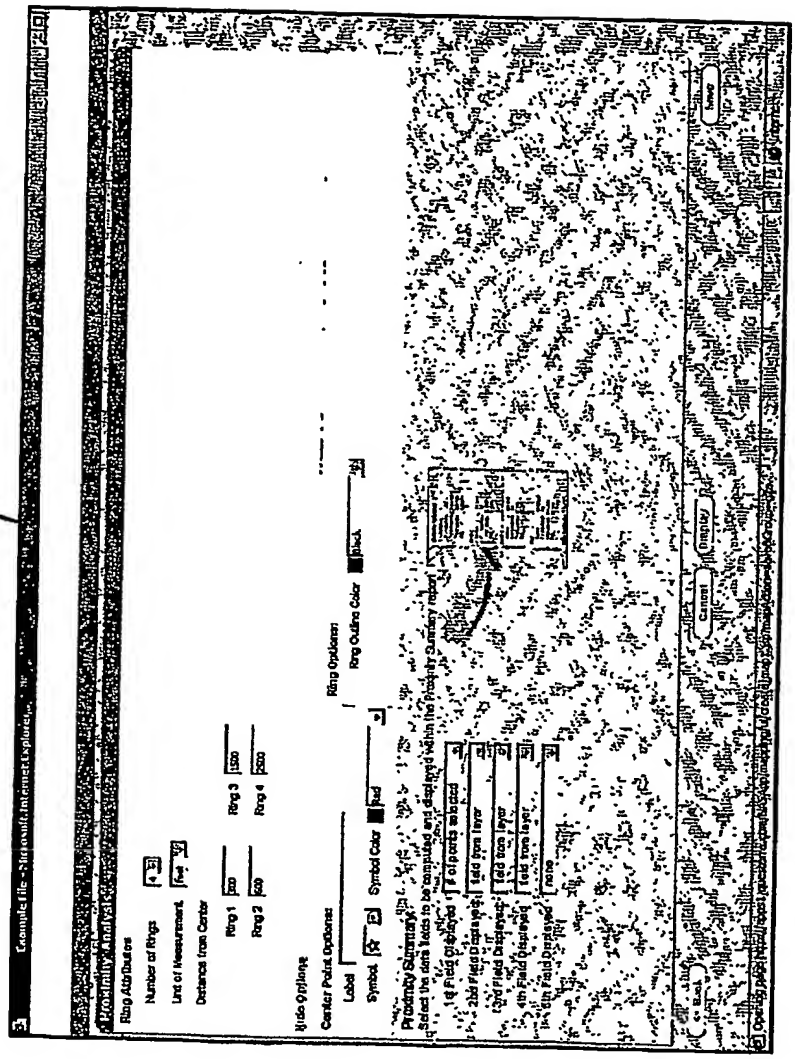

5700
Proximity Analysis
Ring Attributes
Number of Rings
Unit of Measurement
Distance from Center
Ring 1
Ring 2
Ring 3
Ring 4
Buffer Options
Center Point Options
Label
Symbol
Symbol Color
Ring Options
Ring Outline Color
Proximity Summary
Select the data fields to be computed and displayed within the Proximity Summary Report
1st Field to Display
2nd Field to Display
3rd Field to Display
4th Field to Display
5th Field to Display
Add from layer
Add from layer
Add from layer
Add from layer
none
Cancel
Display
Save

FIG. 57

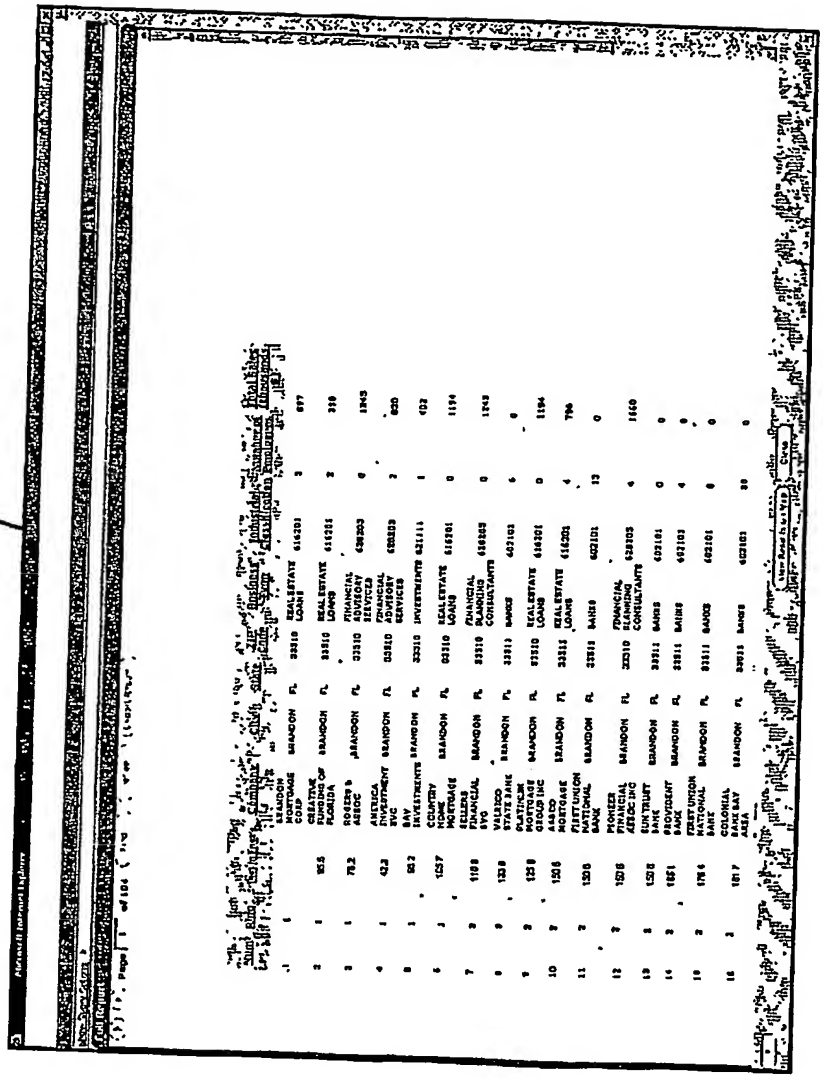


FIG. 58

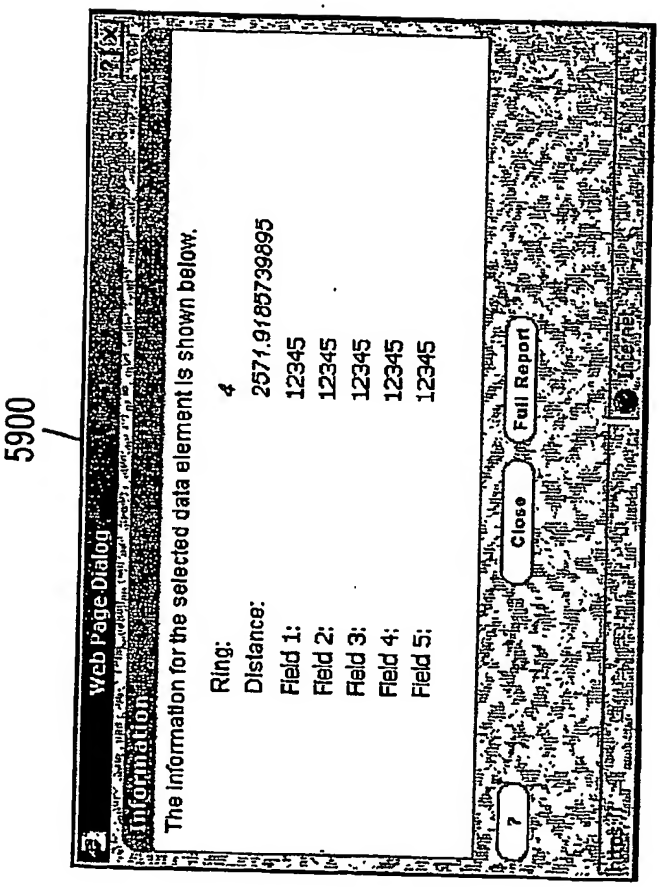

5900
Web Page Dialog
Information
The information for the selected data element is shown below.
Ring: 4
Distance: 2571.9185739895
Field 1: 12345
Field 2: 12345
Field 3: 12345
Field 4: 12345
Field 5: 12345
Full Report
Close
?

FIG. 59

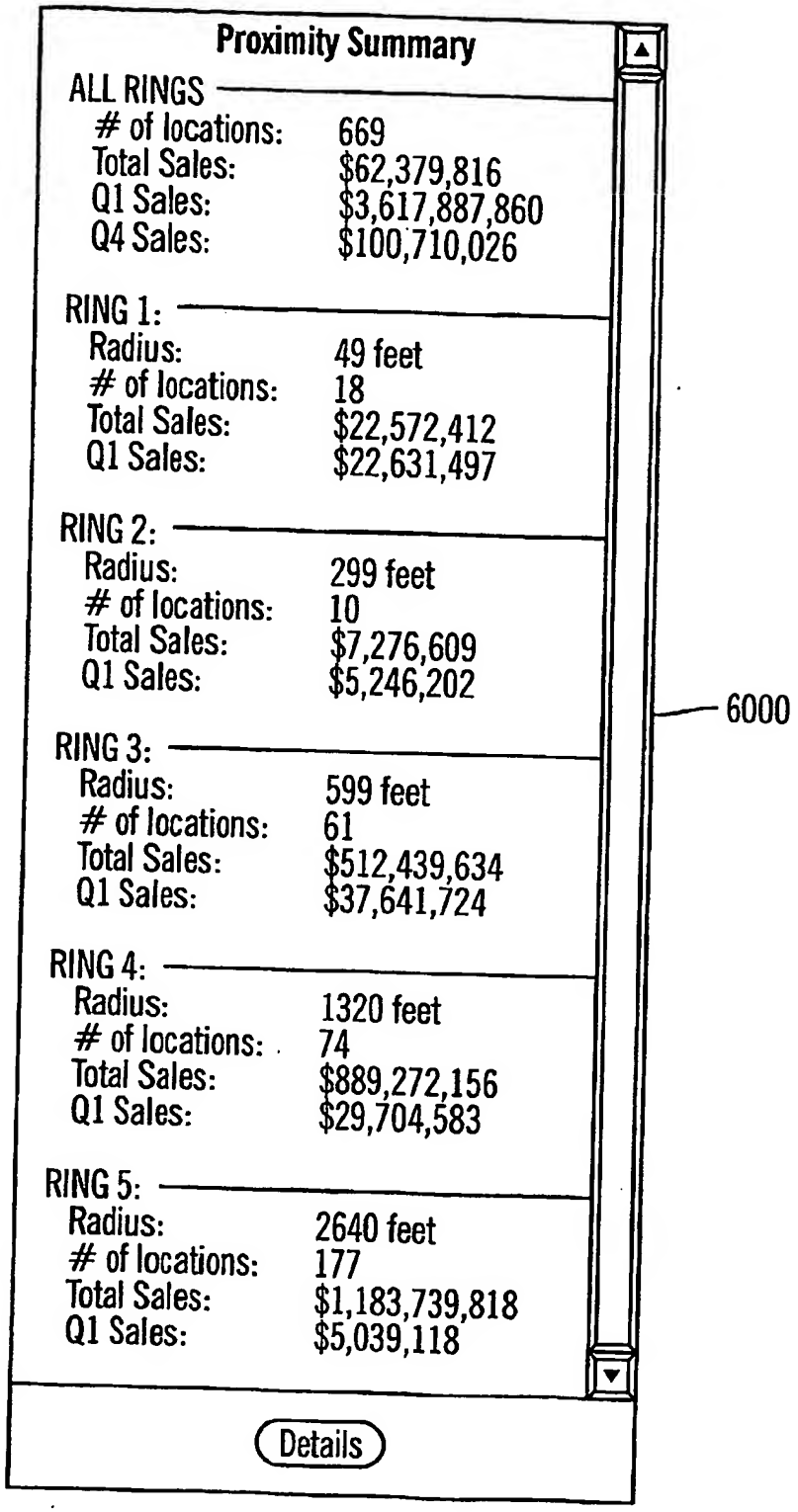

Proximity Summary
ALL RINGS
# of locations: 669
Total Sales: $62,379,816
Q1 Sales: $3,617,887,860
Q4 Sales: $100,710,026
RING 1:
Radius: 49 feet
# of locations: 18
Total Sales: $22,572,412
Q1 Sales: $22,631,497
RING 2:
Radius: 299 feet
# of locations: 10
Total Sales: $7,276,609
Q1 Sales: $5,246,202
RING 3:
Radius: 599 feet
# of locations: 61
Total Sales: $512,439,634
Q1 Sales: $37,641,724
RING 4:
Radius: 1320 feet
# of locations: 74
Total Sales: $889,272,156
Q1 Sales: $29,704,583
RING 5:
Radius: 2640 feet
# of locations: 177
Total Sales: $1,183,739,818
Q1 Sales: $5,039,118
Details
6000

FIG. 60

6110

#	Description	Data	Fixed or Variable Field
1	Ring Radius	Session based Proximity Analysis records	Fixed
2	Total # of Locations	Session based Proximity Analysis records	Fixed
3	Field 1	Session based Proximity Analysis records	Variable
4	Field 2	Session based Proximity Analysis records	Variable
5	Field 3 or Black box calculation	Session based Proximity Analysis records	Variable

FIG. 61A

6120

#	Description	Data	Fixed or Variable Field
1	Ring Number	Session based Proximity Analysis records	Fixed
2	Ring Radius	Session based Proximity Analysis records	Fixed
3	Total # of Locations	Session based Proximity Analysis records	Fixed
4	Field 1	Session based Proximity Analysis records	Variable
5	Field 2	Session based Proximity Analysis records	Variable
6	Field 3 or Black box calculation	Session based Proximity Analysis records	Variable

FIG. 61B

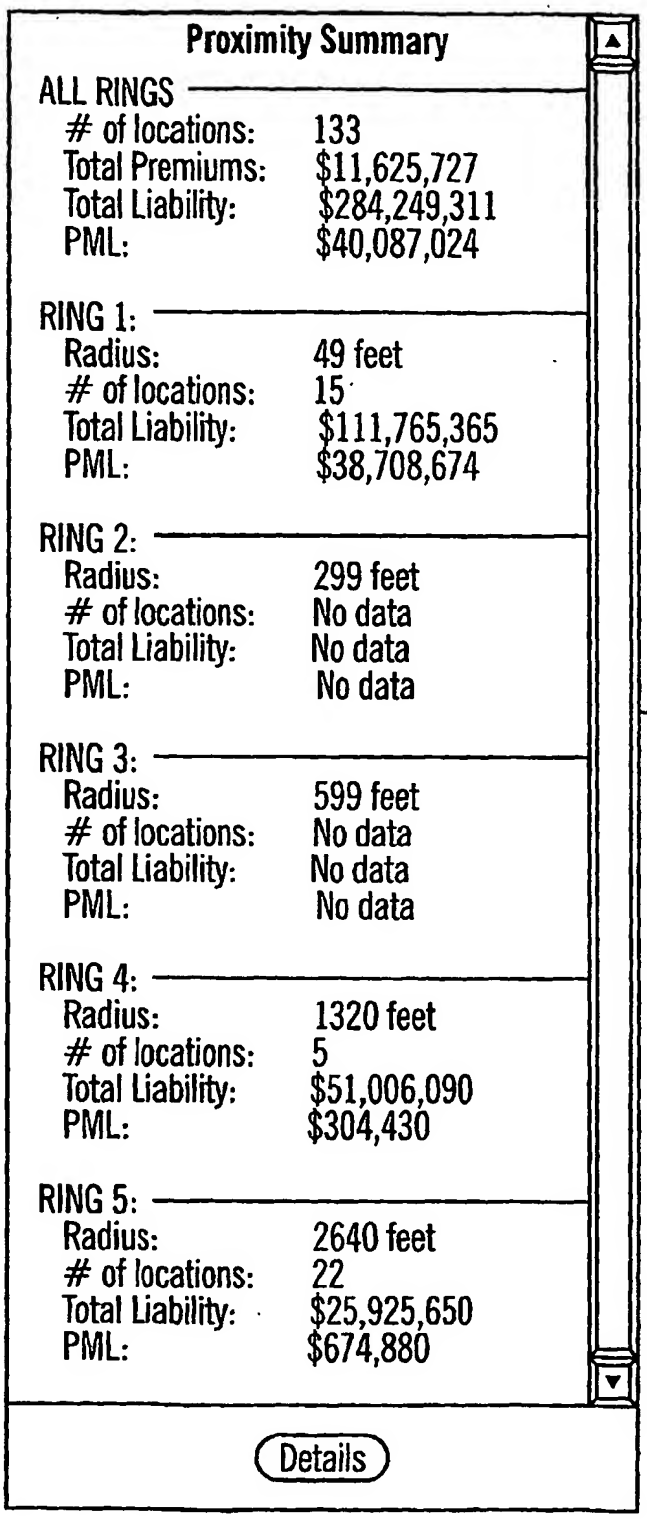

Proximity Summary
ALL RINGS
# of locations: 133
Total Premiums: $11,625,727
Total Liability: $284,249,311
PML: $40,087,024
RING 1:
Radius: 49 feet
# of locations: 15
Total Liability: $111,765,365
PML: $38,708,674
RING 2:
Radius: 299 feet
# of locations: No data
Total Liability: No data
PML: No data
RING 3:
Radius: 599 feet
# of locations: No data
Total Liability: No data
PML: No data
RING 4:
Radius: 1320 feet
# of locations: 5
Total Liability: $51,006,090
PML: $304,430
RING 5:
Radius: 2640 feet
# of locations: 22
Total Liability: $25,925,650
PML: $674,880
Details
6200

FIG. 62

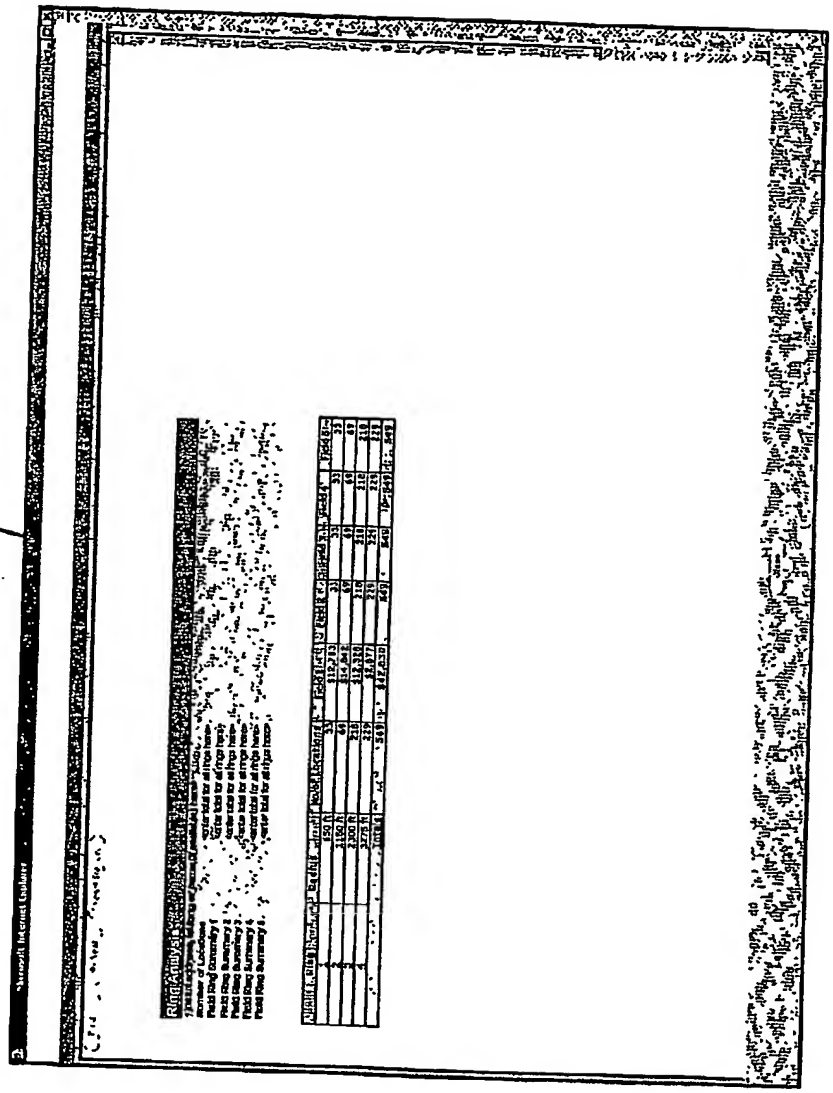


FIG. 63

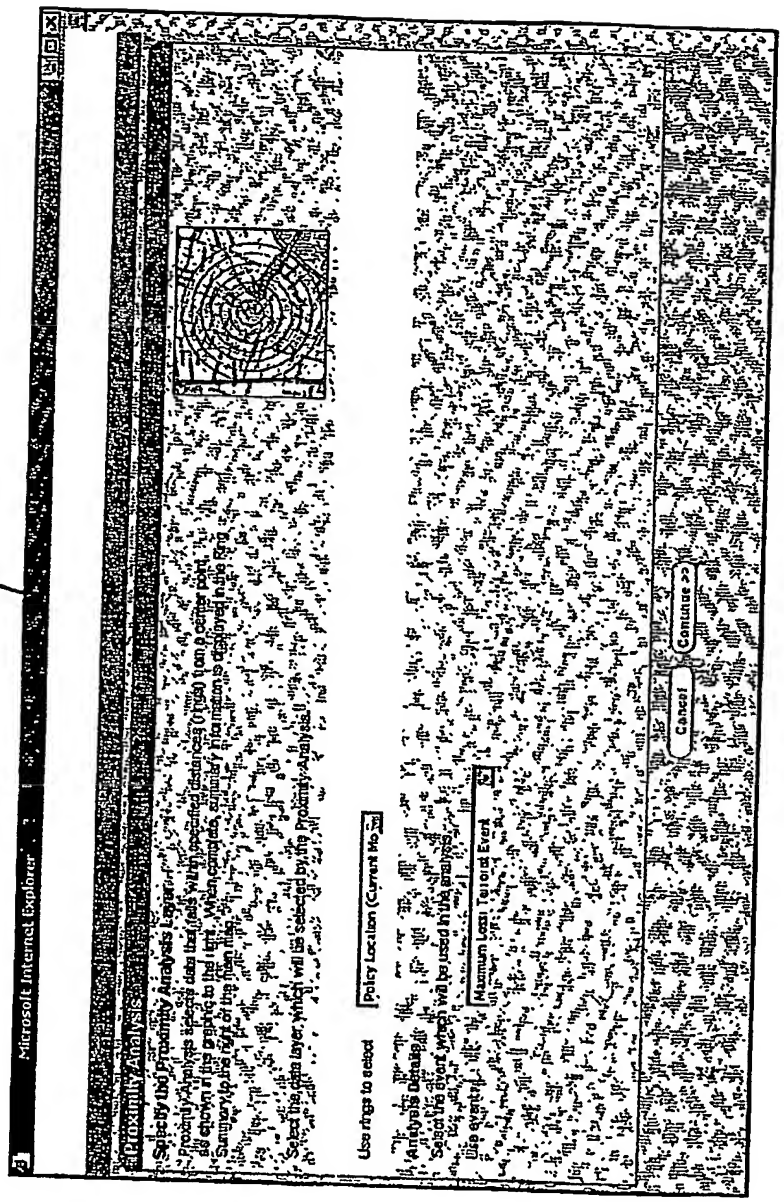

6400
Microsoft Internet Explorer
Proximity Analysis
Use rings to select
Policy Location (Current Map)
Maximum Loss Tailored Event
Cancel
Continue >>

FIG. 64

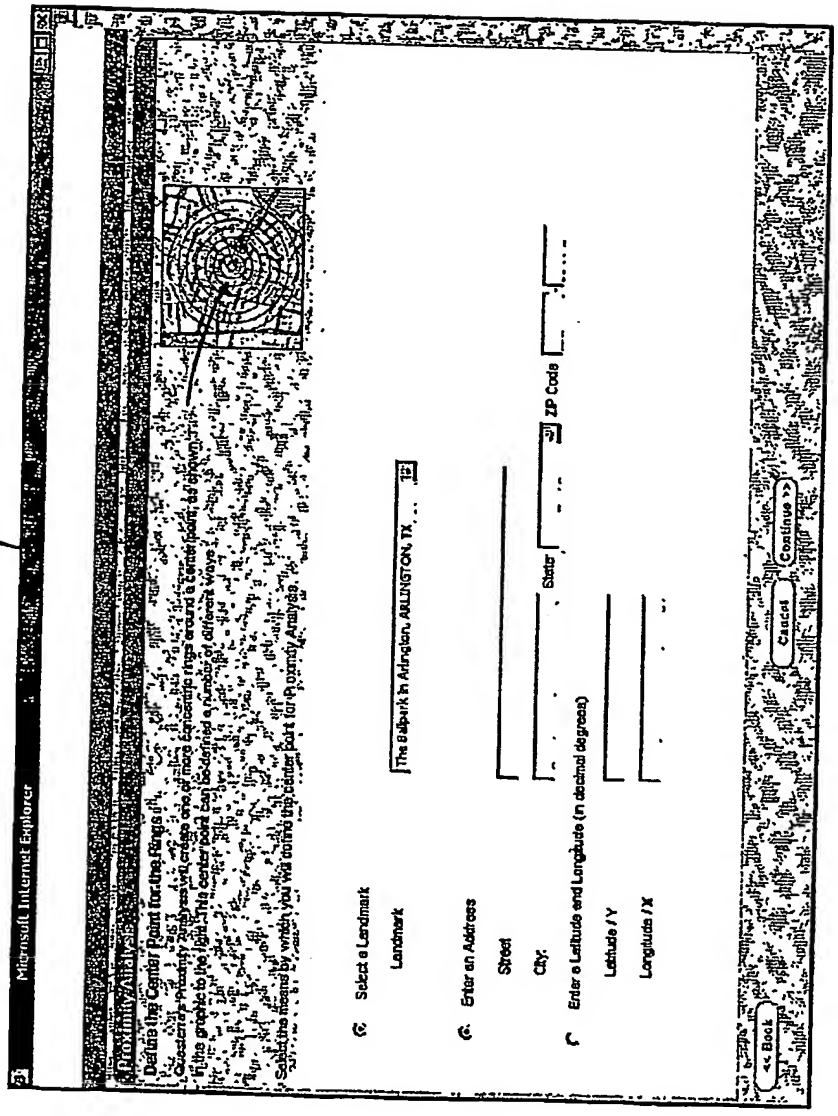

6500
Microsoft Internet Explorer
Define the Center Point for the Rings
Select a Landmark
Landmark
The Ballpark in Arlington, ARLINGTON, TX
Enter an Address
Street
City:
State
ZIP Code
Enter a Latitude and Longitude (in decimal degrees)
Latitude / Y
Longitude / X
<< Back
Cancel
Continue >>

FIG. 65

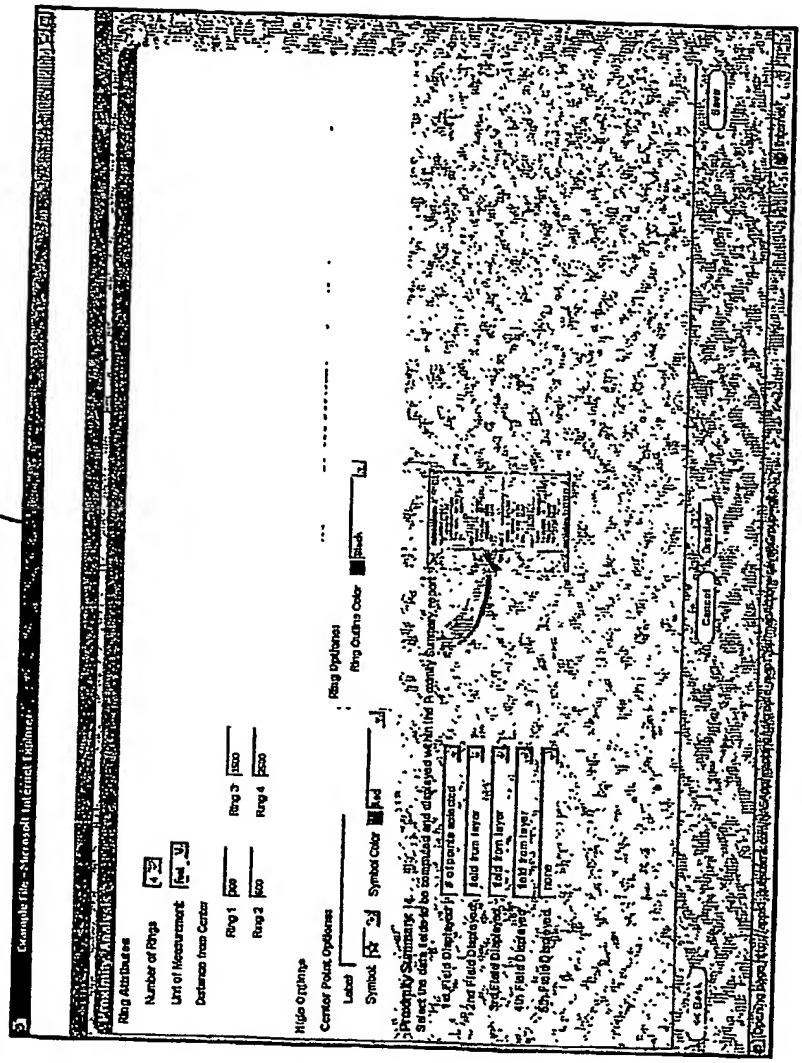

6600
Example File - Microsoft Internet Explorer
Proximity Analysis
Ring Attributes
Number of Rings
Unit of Measurement
Distance from Center
Ring 1
Ring 2
Ring 3
Ring 4
Ring Options
Ring Outline Color
Black
Hide Origins
Center Point Options
Label
Symbol
Symbol Color
Red
Proximity Summary
Select the data variable to be summarized and displayed within the Proximity Summary report
1st Field Displayed
2nd Field Displayed
3rd Field Displayed
4th Field Displayed
5th Field Displayed
Fields from layer
Cancel
Done

FIG. 66

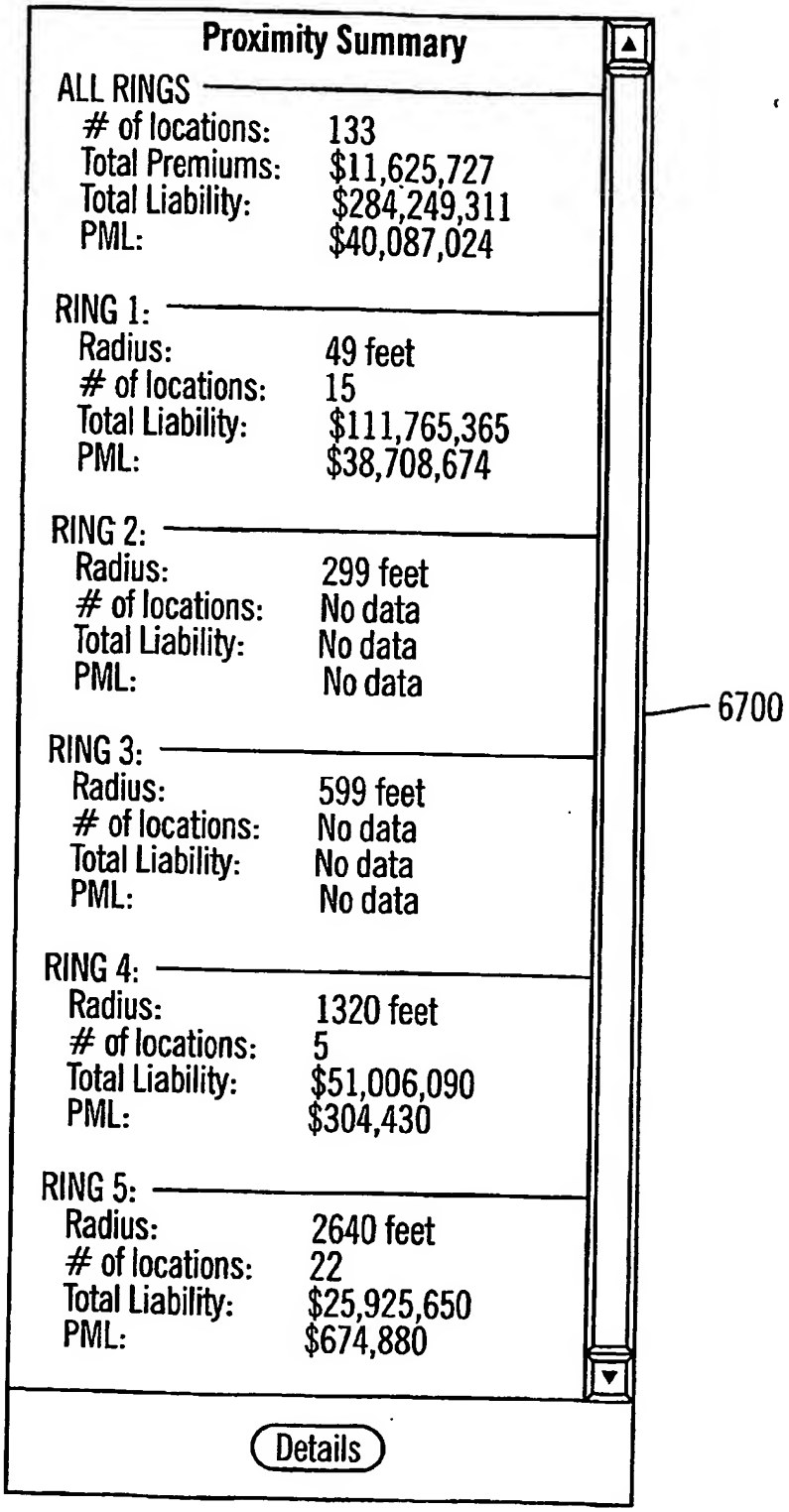

Proximity Summary
ALL RINGS
# of locations: 133
Total Premiums: $11,625,727
Total Liability: $284,249,311
PML: $40,087,024
RING 1:
Radius: 49 feet
# of locations: 15
Total Liability: $111,765,365
PML: $38,708,674
RING 2:
Radius: 299 feet
# of locations: No data
Total Liability: No data
PML: No data
RING 3:
Radius: 599 feet
# of locations: No data
Total Liability: No data
PML: No data
RING 4:
Radius: 1320 feet
# of locations: 5
Total Liability: $51,006,090
PML: $304,430
RING 5:
Radius: 2640 feet
# of locations: 22
Total Liability: $25,925,650
PML: $674,880
Details
6700

FIG. 67

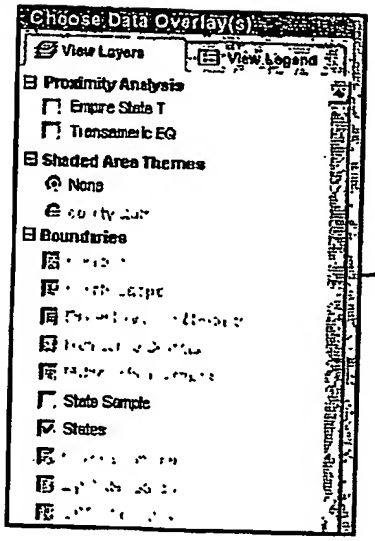

Choose Data Overlay(s)
View Layers
View Legend
Proximity Analysis
Empire State T
Tiensamelc EQ
Shaded Area Themes
None
Boundaries
State Sample
States
6800

FIG. 68

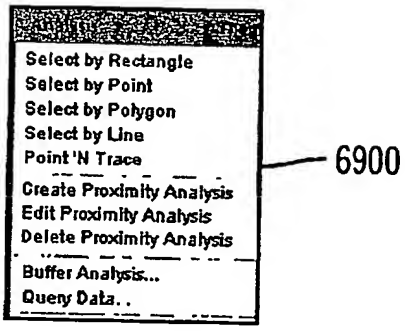

Select by Rectangle
Select by Point
Select by Polygon
Select by Line
Point 'N Trace
Create Proximity Analysis
Edit Proximity Analysis
Delete Proximity Analysis
Buffer Analysis...
Query Data. .
6900

FIG. 69

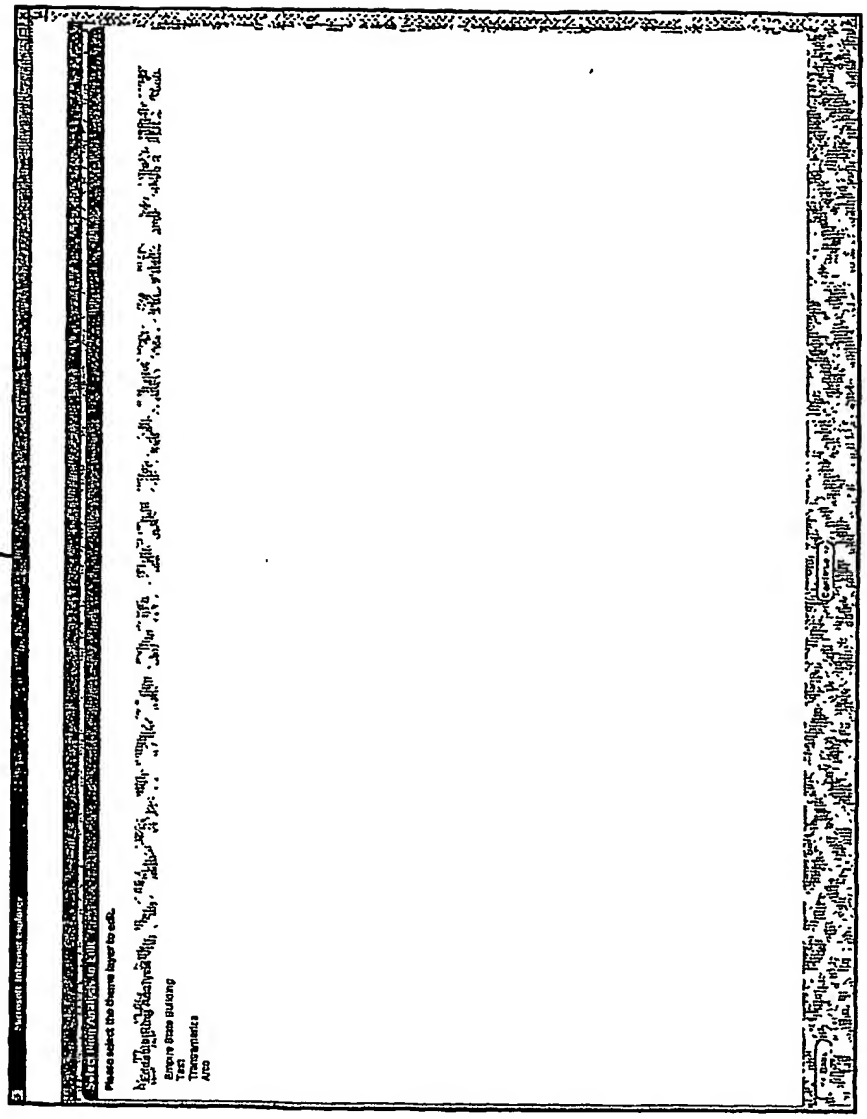


FIG. 70

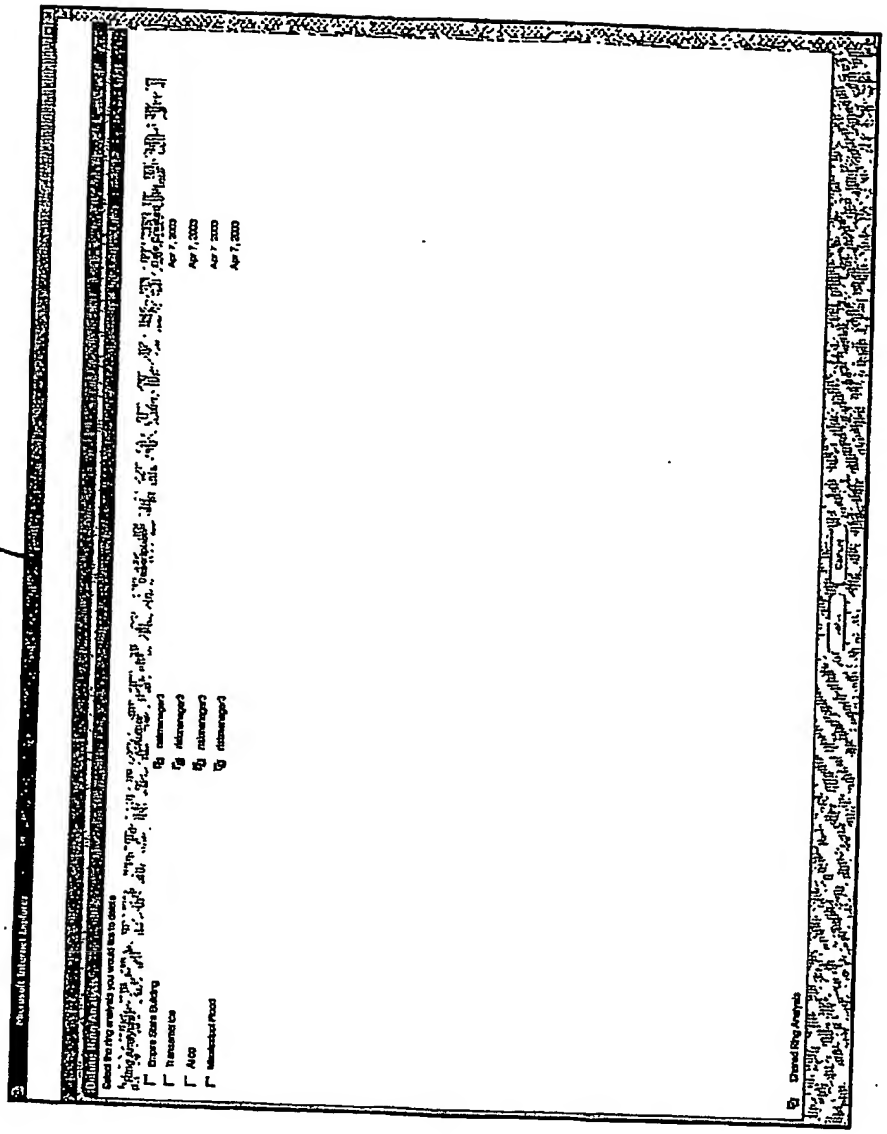


FIG. 71A

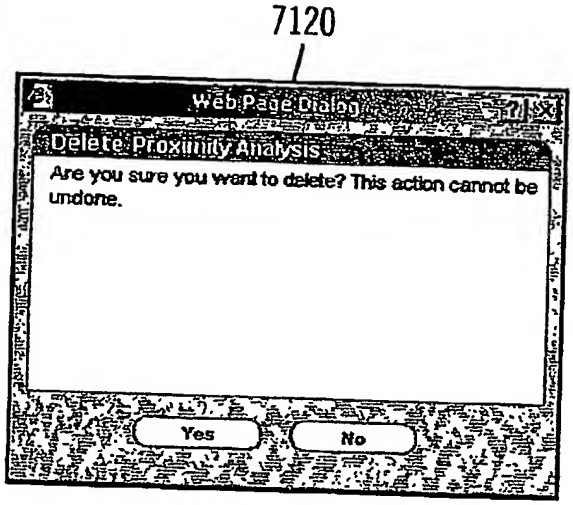

7120
Web Page Dialog
Delete Proximity Analysis
Are you sure you want to delete? This action cannot be undone.
Yes
No

FIG. 71B

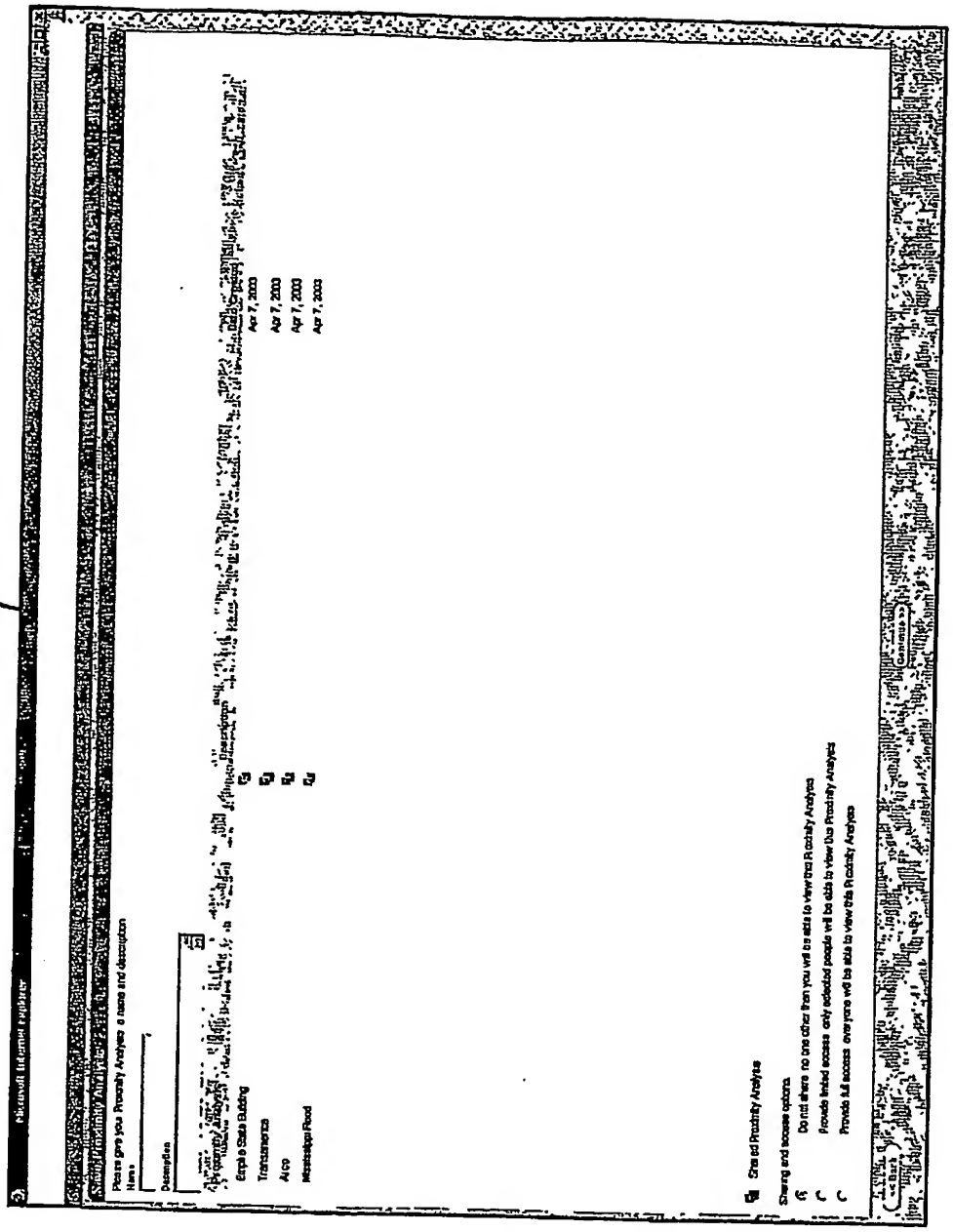

7200
Please give your Proximity Analysis a name and description
Name
Description
Empire State Building
Transamerica
Arco
Mississippi Flood
Apr 7, 2003
Apr 7, 2003
Apr 7, 2003
Apr 7, 2003
Share ed Proximity Analysis
Sharing and access options:
Do not share - no one other than you will be able to view this Proximity Analysis
Provide limited access - only selected people will be able to view this Proximity Analysis
Provide full access - everyone will be able to view this Proximity Analysis

FIG. 72

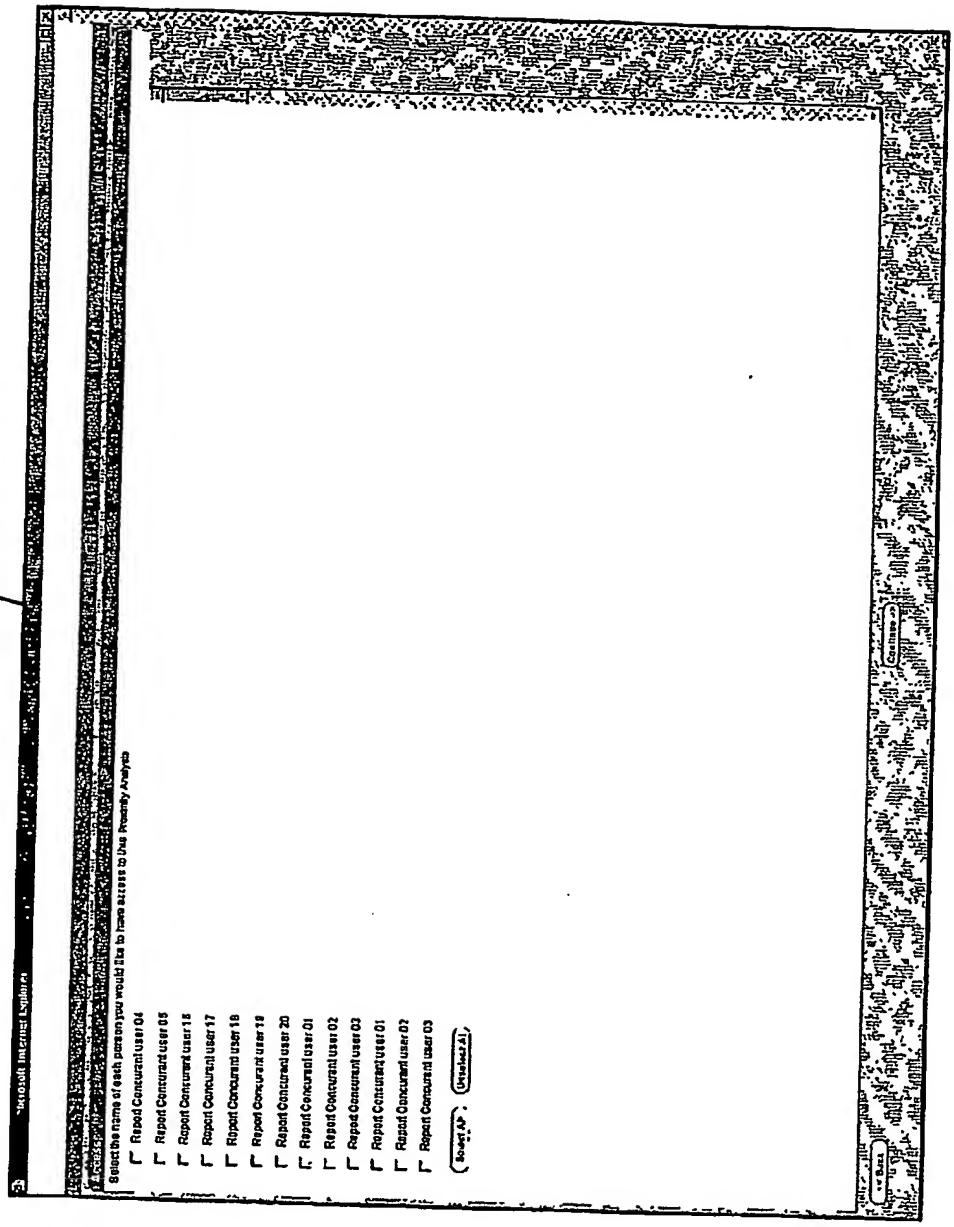

7300
Microsoft Internet Explorer
Select the name of each person you would like to have access to the Property Analysis
Repad Concurrent user 04
Repad Concurrent user 05
Repad Concurrent user 15
Repad Concurrent user 17
Repad Concurrent user 18
Repad Concurrent user 19
Repad Concurrent user 20
Repad Concurrent user 01
Repad Concurrent user 02
Repad Concurrent user 03
Repad Concurrent user 01
Repad Concurrent user 02
Repad Concurrent user 03
Select All
Unselect All
Continue
Back

FIG. 73

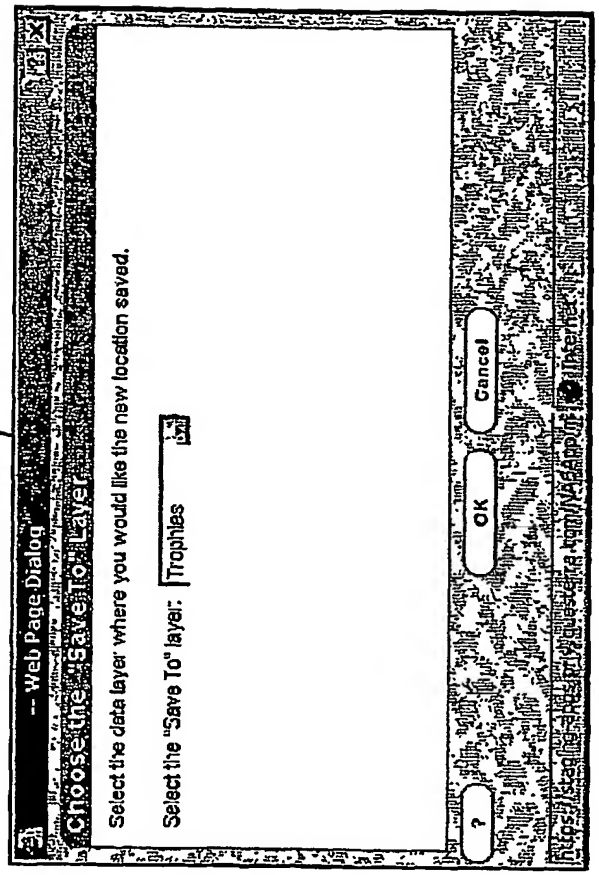

7400
-- Web Page Dialog
Choose the "Save To" Layer
Select the data layer where you would like the new location saved.
Select the "Save To" layer:
Trophies
OK
Cancel
?

FIG. 74

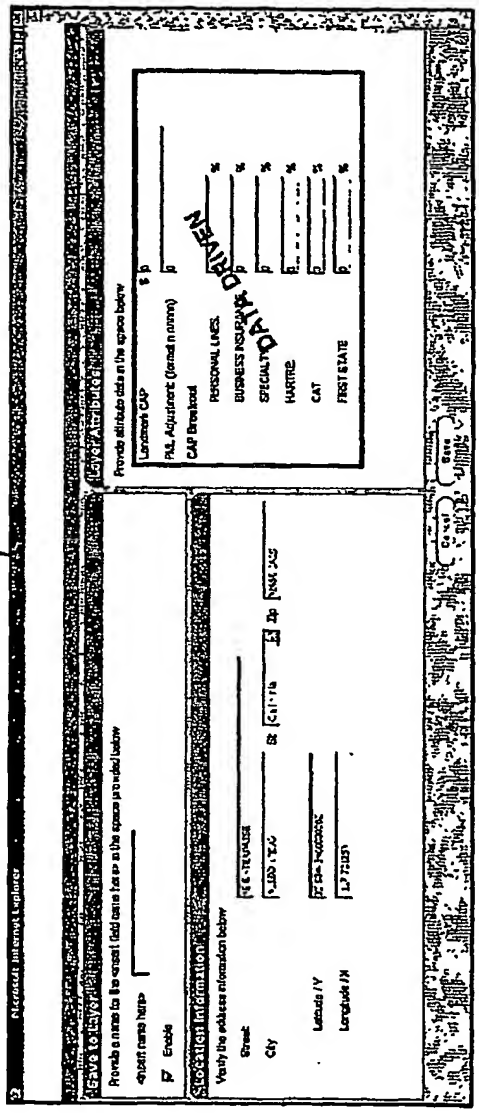


FIG. 75

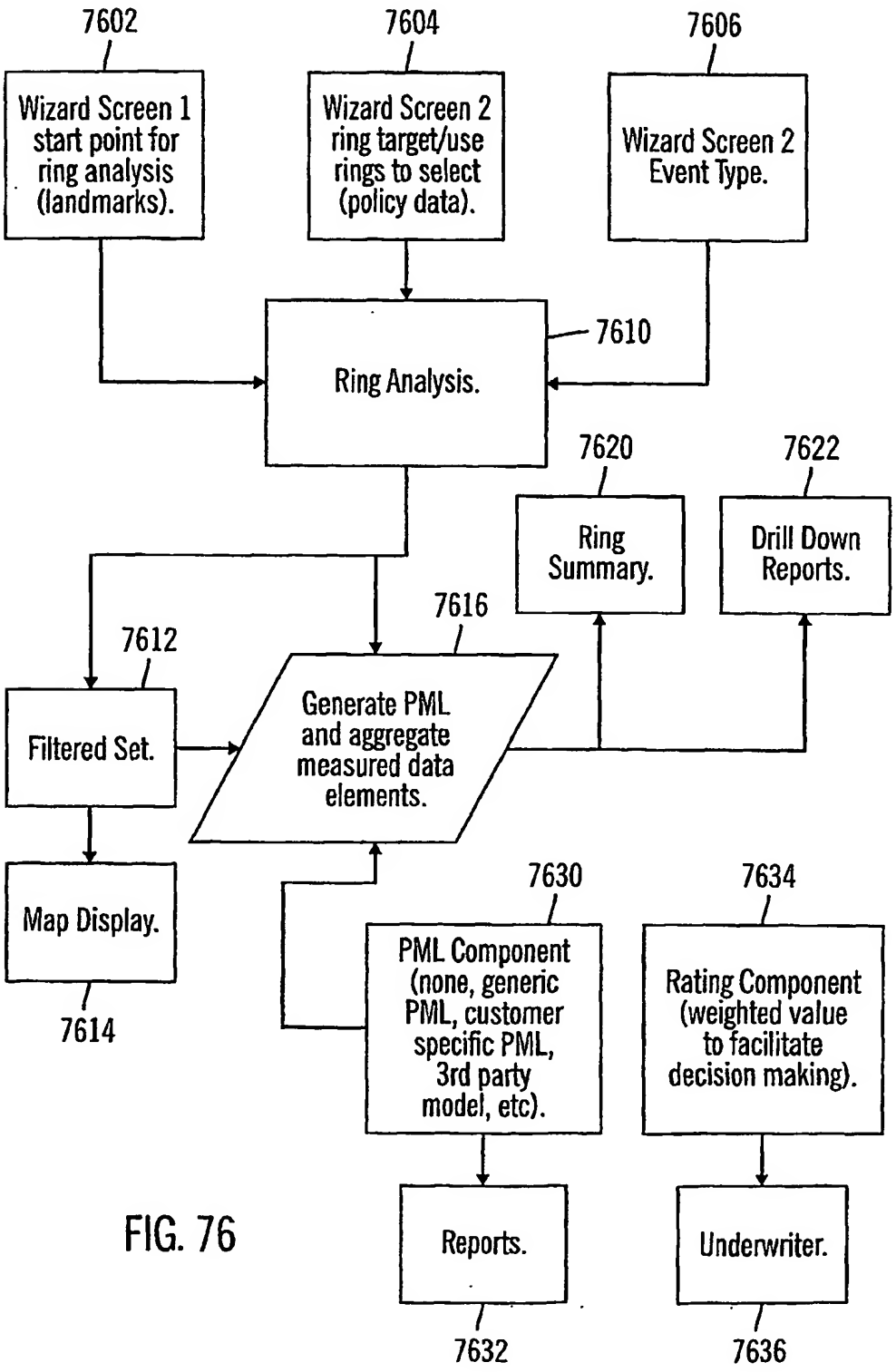

7602
Wizard Screen 1 start point for ring analysis (landmarks).
7604
Wizard Screen 2 ring target/use rings to select (policy data).
7606
Wizard Screen 2 Event Type.
7610
Ring Analysis.
7620
Ring Summary.
7622
Drill Down Reports.
7616
7612
Filtered Set.
Generate PML and aggregate measured data elements.
Map Display.
7614
7630
PML Component (none, generic PML, customer specific PML, 3rd party model, etc).
7634
Rating Component (weighted value to facilitate decision making).
Reports.
7632
Underwriter.
7636

FIG. 76

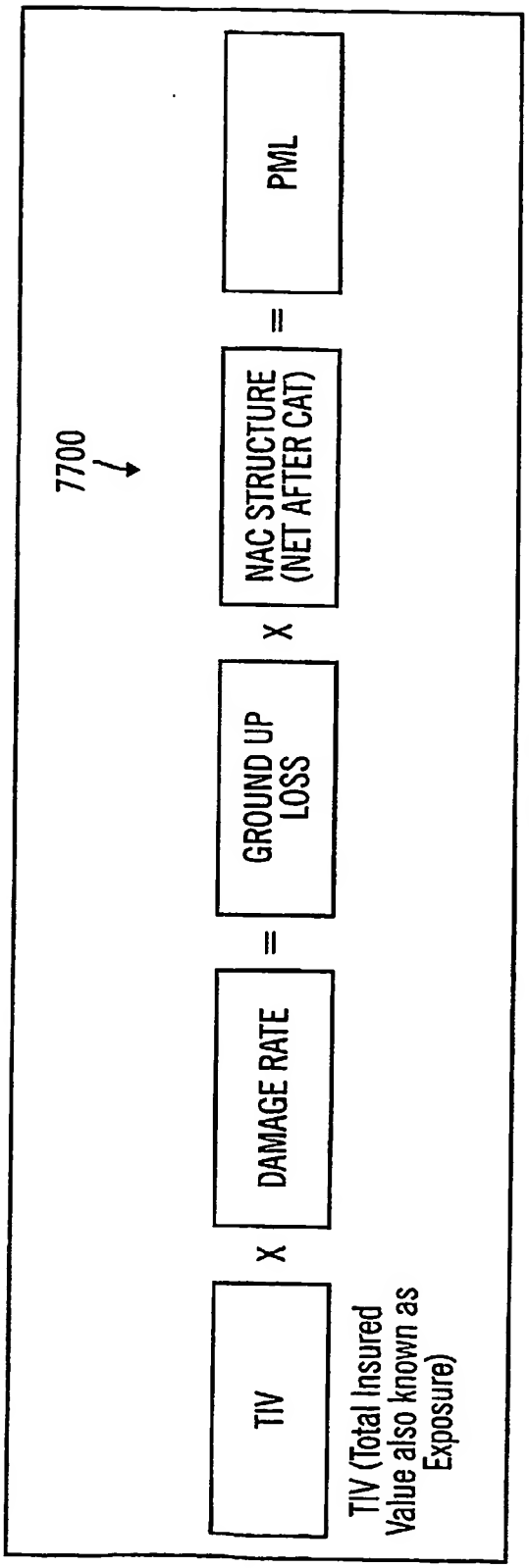

7700
TIV
TIV (Total Insured Value also known as Exposure)
X
DAMAGE RATE
=
GROUND UP LOSS
X
NAC STRUCTURE (NET AFTER CAT)
=
PML

FIG. 77

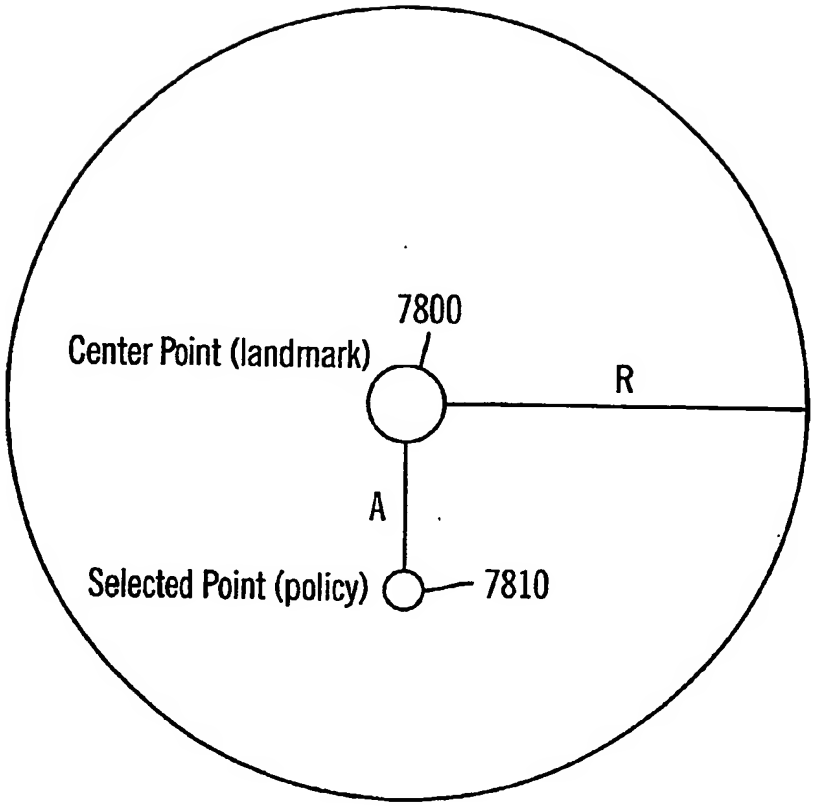


FIG. 78

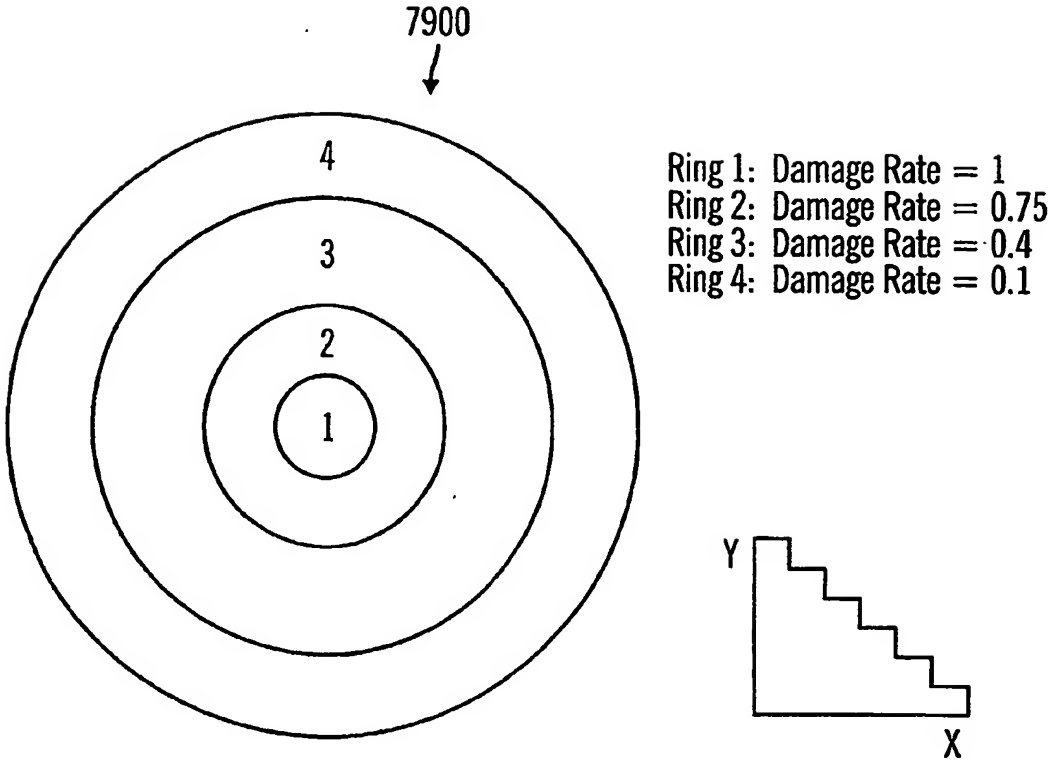

7900
4
3
2
1
Ring 1: Damage Rate = 1
Ring 2: Damage Rate = 0.75
Ring 3: Damage Rate = 0.4
Ring 4: Damage Rate = 0.1
Y
X

FIG. 79A

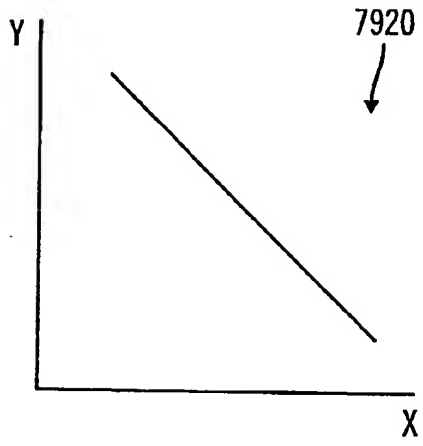


FIG. 79B

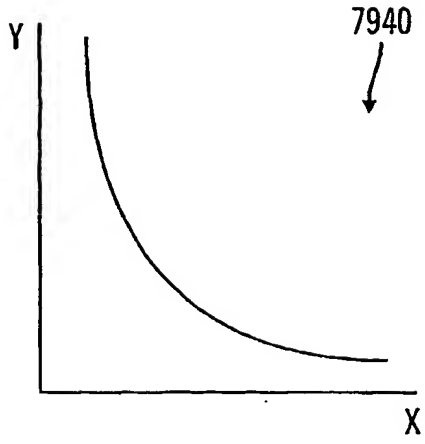


FIG. 79C

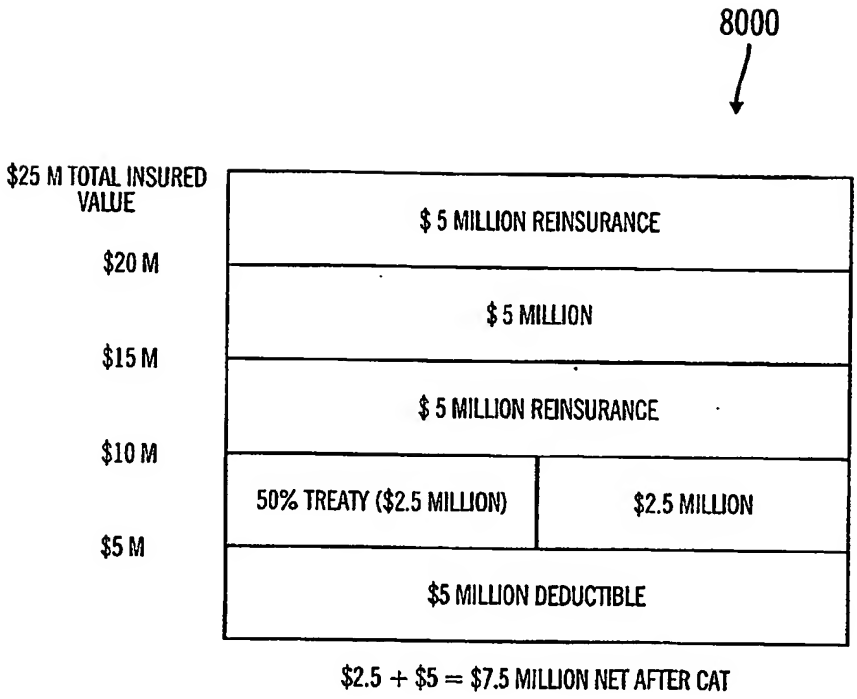

8000
$25 M TOTAL INSURED VALUE
$20 M
$15 M
$10 M
$5 M
$ 5 MILLION REINSURANCE
$ 5 MILLION
$ 5 MILLION REINSURANCE
50% TREATY ($2.5 MILLION)
$2.5 MILLION
$5 MILLION DEDUCTIBLE
$2.5 + $5 = $7.5 MILLION NET AFTER CAT

FIG. 80

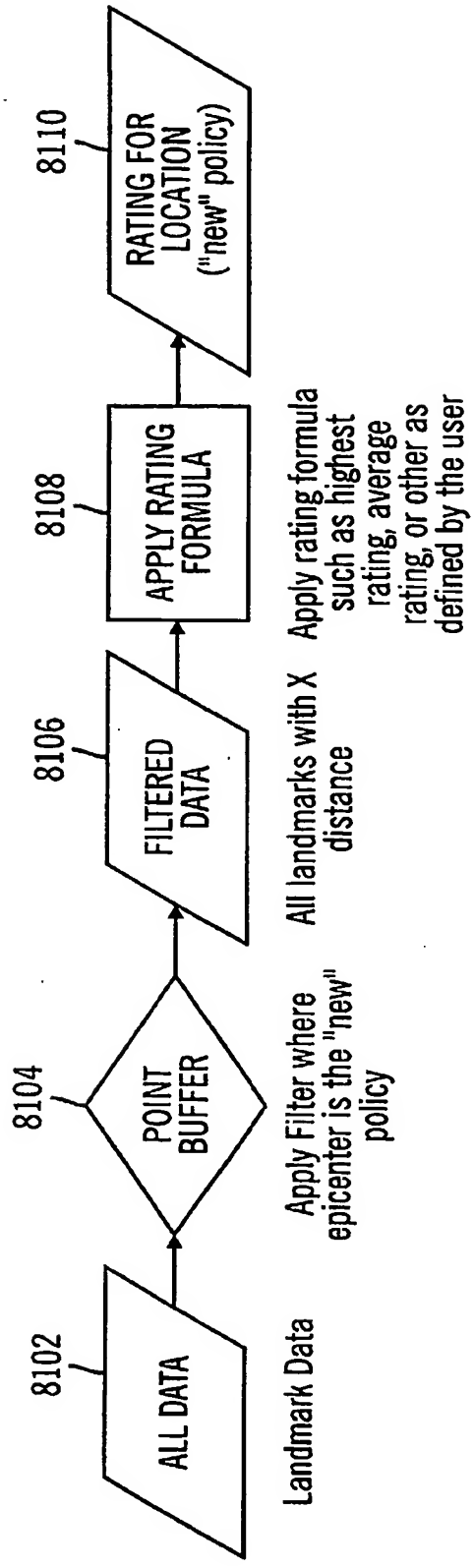

8102
ALL DATA
Landmark Data
8104
POINT BUFFER
Apply Filter where epicenter is the "new" policy
8106
FILTERED DATA
All landmarks with X distance
8108
APPLY RATING FORMULA
Apply rating formula such as highest rating, average rating, or other as defined by the user
8110
RATING FOR LOCATION ("new" policy)

FIG. 81

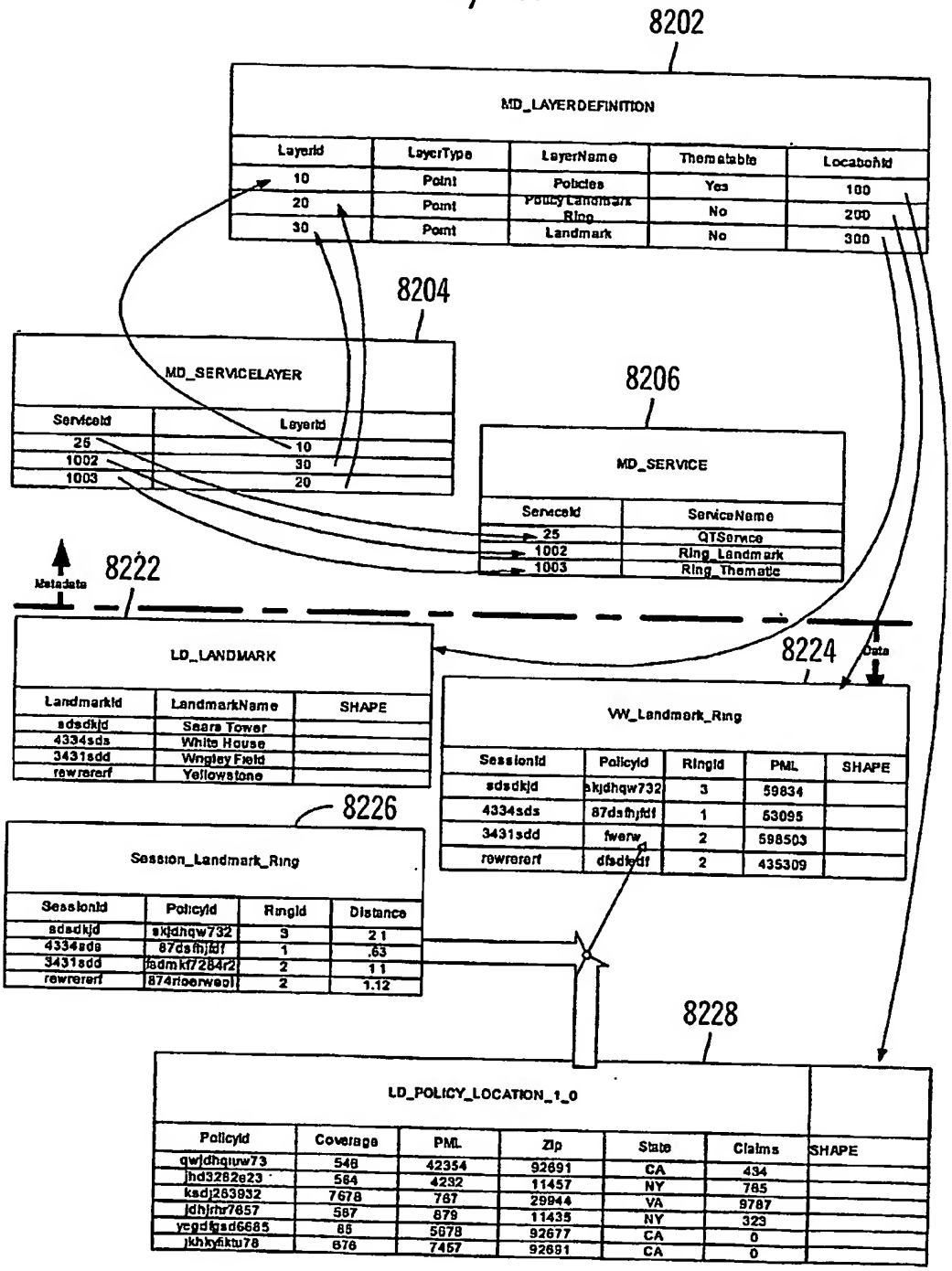

8202
MD_LAYERDEFINITION
LayerId | LayerType | LayerName | ThematicIn | LocationId
10 | Point | Policies | Yes | 100
20 | Point | Policy Landmark Ring | No | 200
30 | Point | Landmark | No | 300
8204
MD_SERVICELAYER
ServiceId | LayerId
25 | 10
1002 | 30
1003 | 20
8206
MD_SERVICE
ServiceId | ServiceName
25 | QTService
1002 | Ring_Landmark
1003 | Ring_Thematic
Metadata
8222
Data
8224
LD_LANDMARK
LandmarkId | LandmarkName | SHAPE
sdsdkjd | Sears Tower |
4334sds | White House |
3431sdd | Wrigley Field |
rewrererf | Yellowstone |
VW_Landmark_Ring
SessionId | PolicyId | RingId | PML | SHAPE
sdsdkjd | skjdhqw732 | 3 | 59834 |
4334sds | 87dsfhjfdf | 1 | 53095 |
3431sdd | fwerw | 2 | 598503 |
rewrererf | dfsdfedf | 2 | 435309 |
8226
Session_Landmark_Ring
SessionId | PolicyId | RingId | Distance
sdsdkjd | skjdhqw732 | 3 | 2.1
4334sds | 87dsfhjfdf | 1 | .63
3431sdd | fadmkf7284r2 | 2 | 1.1
rewrererf | 874rfoerweol | 2 | 1.12
8228
LD_POLICY_LOCATION_1_0
PolicyId | Coverage | PML | Zip | State | Claims | SHAPE
qwjdhqiuw73 | 548 | 42354 | 92691 | CA | 434 |
jhd3282e23 | 564 | 4232 | 11457 | NY | 765 |
ksdj283932 | 7678 | 767 | 29944 | VA | 9787 |
jdhjrhr7657 | 567 | 879 | 11435 | NY | 323 |
ycgdkjsd6685 | 65 | 5678 | 92677 | CA | 0 |
jkhkyfiktu78 | 676 | 7457 | 92691 | CA | 0 |

FIG. 82

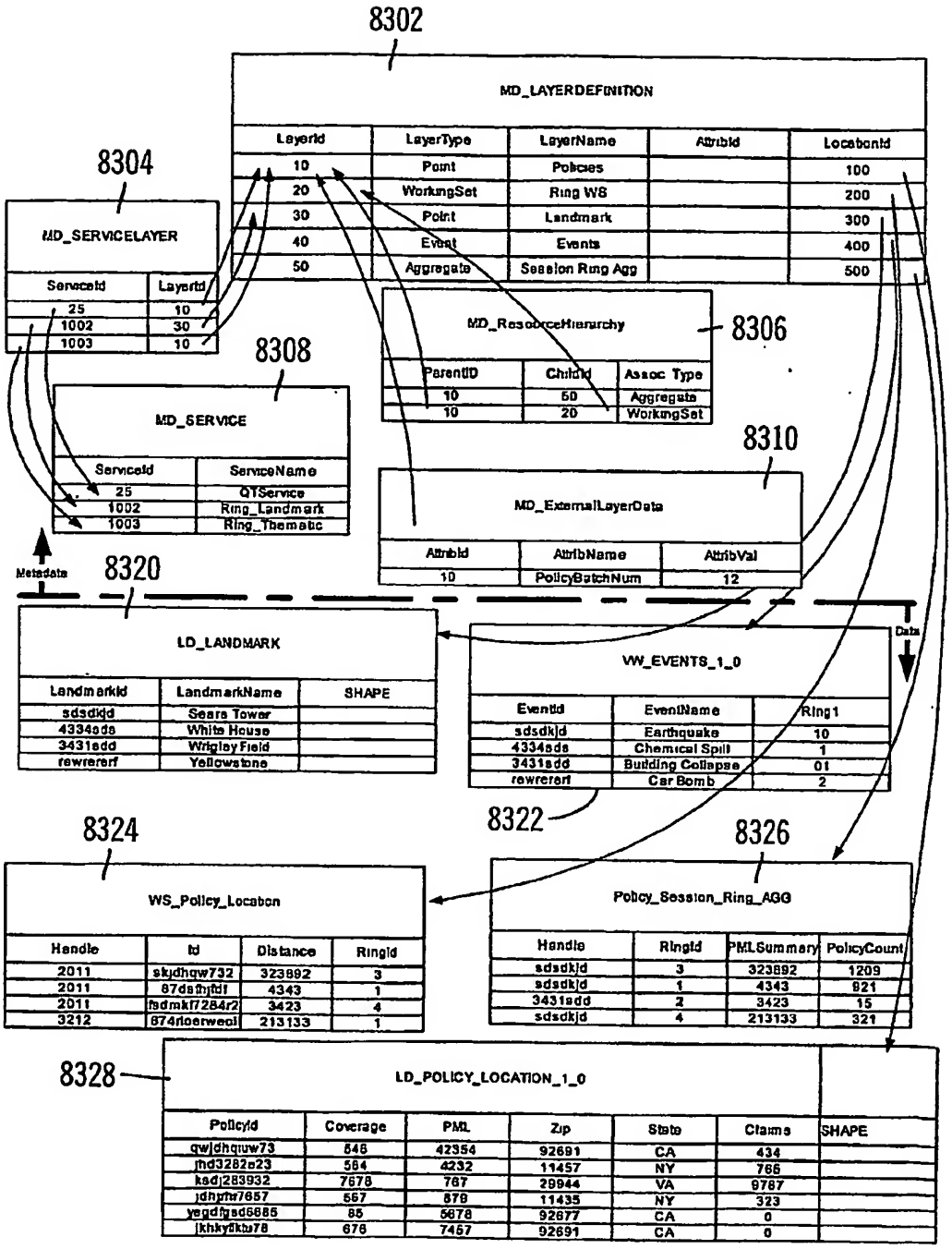

8302
MD_LAYERDEFINITION
LayerId | LayerType | LayerName | AttribId | LocationId
10 | Point | Policies | | 100
20 | WorkingSet | Ring WS | | 200
30 | Point | Landmark | | 300
40 | Event | Events | | 400
50 | Aggregate | Session Ring Agg | | 500
8304
MD_SERVICELAYER
ServiceId | LayerId
25 | 10
1002 | 30
1003 | 10
MD_ResourceHierarchy
8306
ParentID | ChildId | Assoc Type
10 | 50 | Aggregate
10 | 20 | WorkingSet
8308
MD_SERVICE
ServiceId | ServiceName
25 | QTService
1002 | Ring_Landmark
1003 | Ring_Thematic
8310
MD_ExternalLayerData
AttribId | AttribName | AttribVal
10 | PolicyBatchNum | 12
Metadata
8320
Data
LD_LANDMARK
LandmarkId | LandmarkName | SHAPE
sdsdkjd | Sears Tower |
4334sds | White House |
3431sdd | Wrigley Field |
rewrererf | Yellowstone |
VW_EVENTS_1_0
EventId | EventName | Ring1
sdsdkjd | Earthquake | 10
4334sds | Chemical Spill | 1
3431sdd | Building Collapse | 01
rewrererf | Car Bomb | 2
8322
8324
WS_Policy_Locabon
Handle | Id | Distance | RingId
2011 | skjdhqw732 | 323892 | 3
2011 | 87dsfhjfdf | 4343 | 1
2011 | fsdmkf7284r2 | 3423 | 4
3212 | 874rioerweoi | 213133 | 1
8326
Policy_Session_Ring_AGG
Handle | RingId | PMLSummary | PolicyCount
sdsdkjd | 3 | 323892 | 1209
sdsdkjd | 1 | 4343 | 921
3431sdd | 2 | 3423 | 15
sdsdkjd | 4 | 213133 | 321
8328
LD_POLICY_LOCATION_1_0
PolicyId | Coverage | PML | Zip | State | Claims | SHAPE
qwjdhquw73 | 546 | 42354 | 92691 | CA | 434 |
jhd3282e23 | 564 | 4232 | 11457 | NY | 766 |
ksdj283932 | 7678 | 767 | 29944 | VA | 9787 |
jdhjrhr7657 | 567 | 879 | 11435 | NY | 323 |
yegdfgsd6886 | 85 | 5678 | 92677 | CA | 0 |
jkhkydkbu78 | 678 | 7457 | 92691 | CA | 0 |

FIG. 83

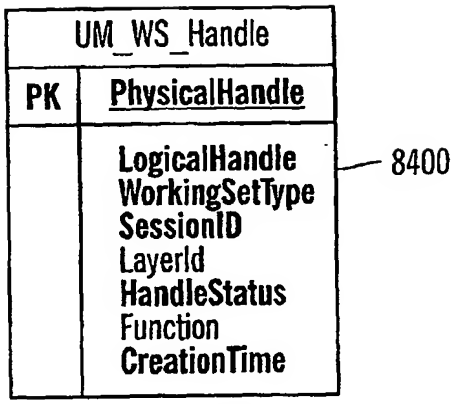

UM_WS_Handle
PK
PhysicalHandle
LogicalHandle
WorkingSetType
SessionID
LayerId
HandleStatus
Function
CreationTime
8400

FIG. 84

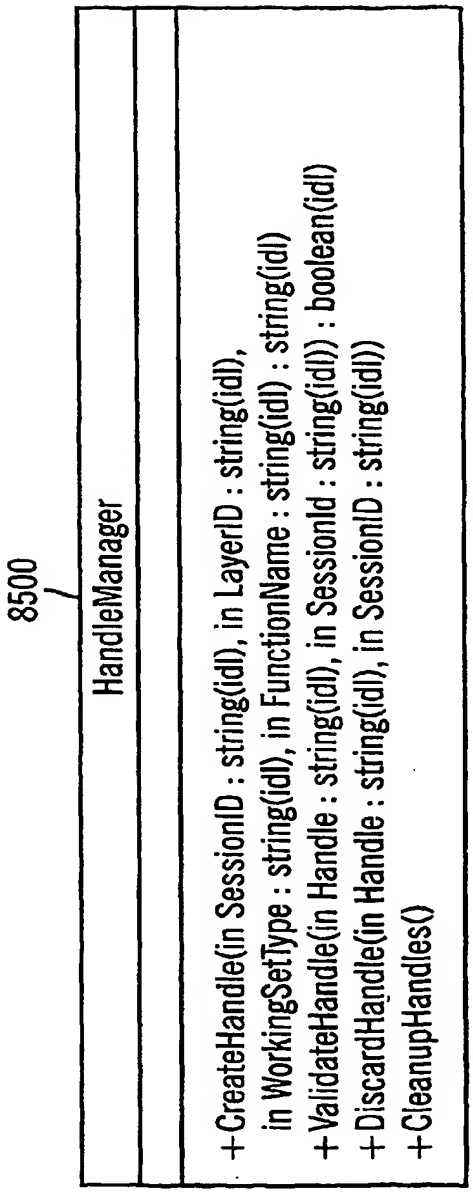

8500
HandleManager
+CreateHandle(in SessionID : string(idl), in LayerID : string(idl),
in WorkingSetType : string(idl), in FunctionName : string(idl) : string(idl)
+ValidateHandle(in Handle : string(idl), in SessionId : string(idl)) : boolean(idl)
+DiscardHandle(in Handle : string(idl), in SessionID : string(idl))
+CleanupHandles()

FIG. 85

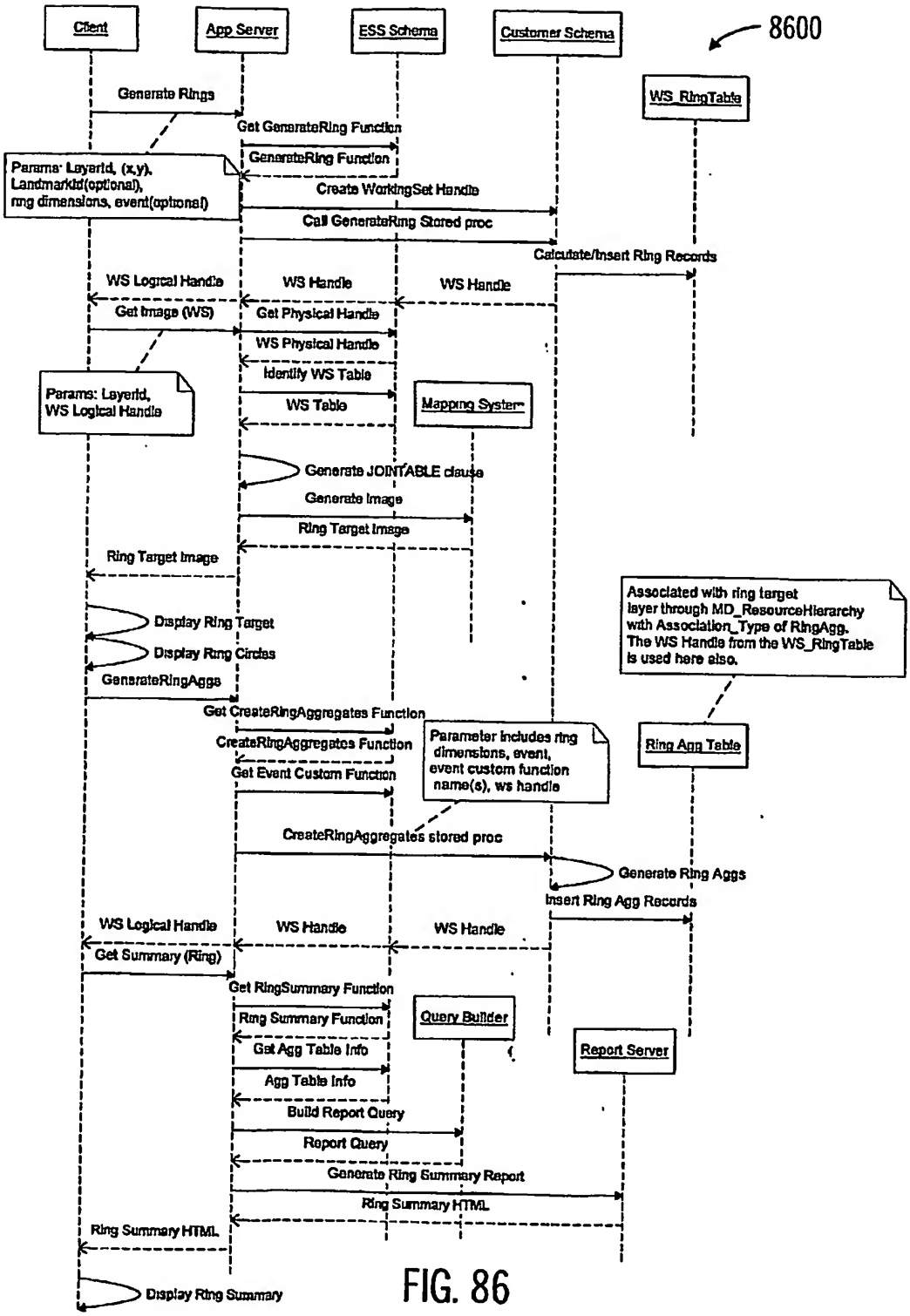

8600
Client
App Server
ESS Schema
Customer Schema
WS_RingTable
Generate Rings
Get GenerateRing Function
GenerateRing Function
Params: LayerId, (x,y), LandmarkId(optional), ring dimensions, event(optional)
Create WorkingSet Handle
Call GenerateRing Stored proc
Calculate/Insert Ring Records
WS Logical Handle
WS Handle
WS Handle
Get Image (WS)
Get Physical Handle
WS Physical Handle
Identify WS Table
Params: LayerId, WS Logical Handle
WS Table
Mapping System
Generate JOINTABLE clause
Generate Image
Ring Target Image
Ring Target Image
Associated with ring target layer through MD_ResourceHierarchy with Association_Type of RingAgg. The WS Handle from the WS_RingTable is used here also.
Display Ring Target
Display Ring Circles
GenerateRingAggs
Get CreateRingAggregates Function
CreateRingAggregates Function
Parameter includes ring dimensions, event, event custom function name(s), ws handle
Ring Agg Table
Get Event Custom Function
CreateRingAggregates stored proc
Generate Ring Aggs
Insert Ring Agg Records
WS Logical Handle
WS Handle
WS Handle
Get Summary (Ring)
Get RingSummary Function
Ring Summary Function
Query Builder
Report Server
Get Agg Table Info
Agg Table Info
Build Report Query
Report Query
Generate Ring Summary Report
Ring Summary HTML
Ring Summary HTML
Display Ring Summary

FIG. 86

FIG. 87

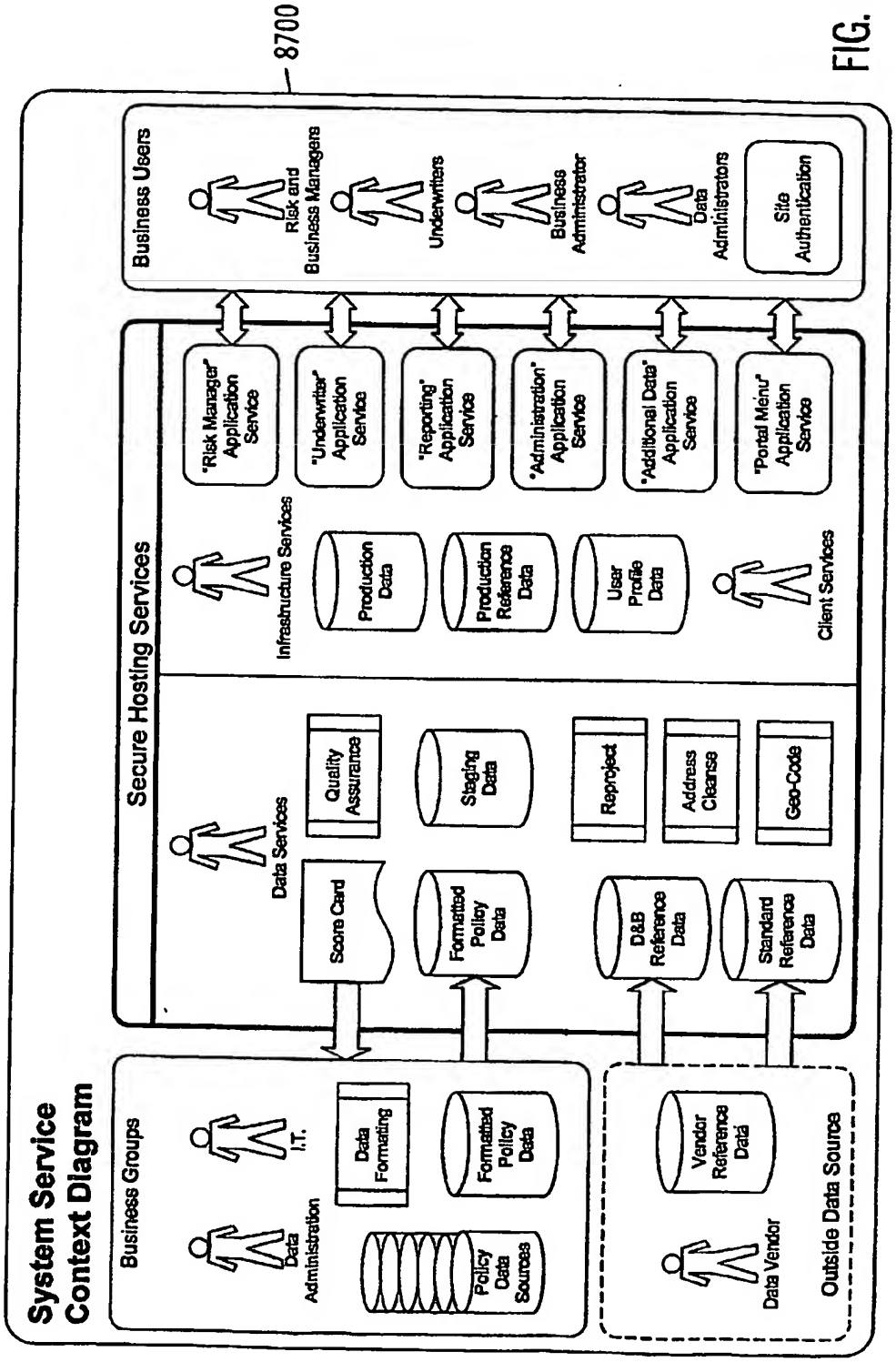
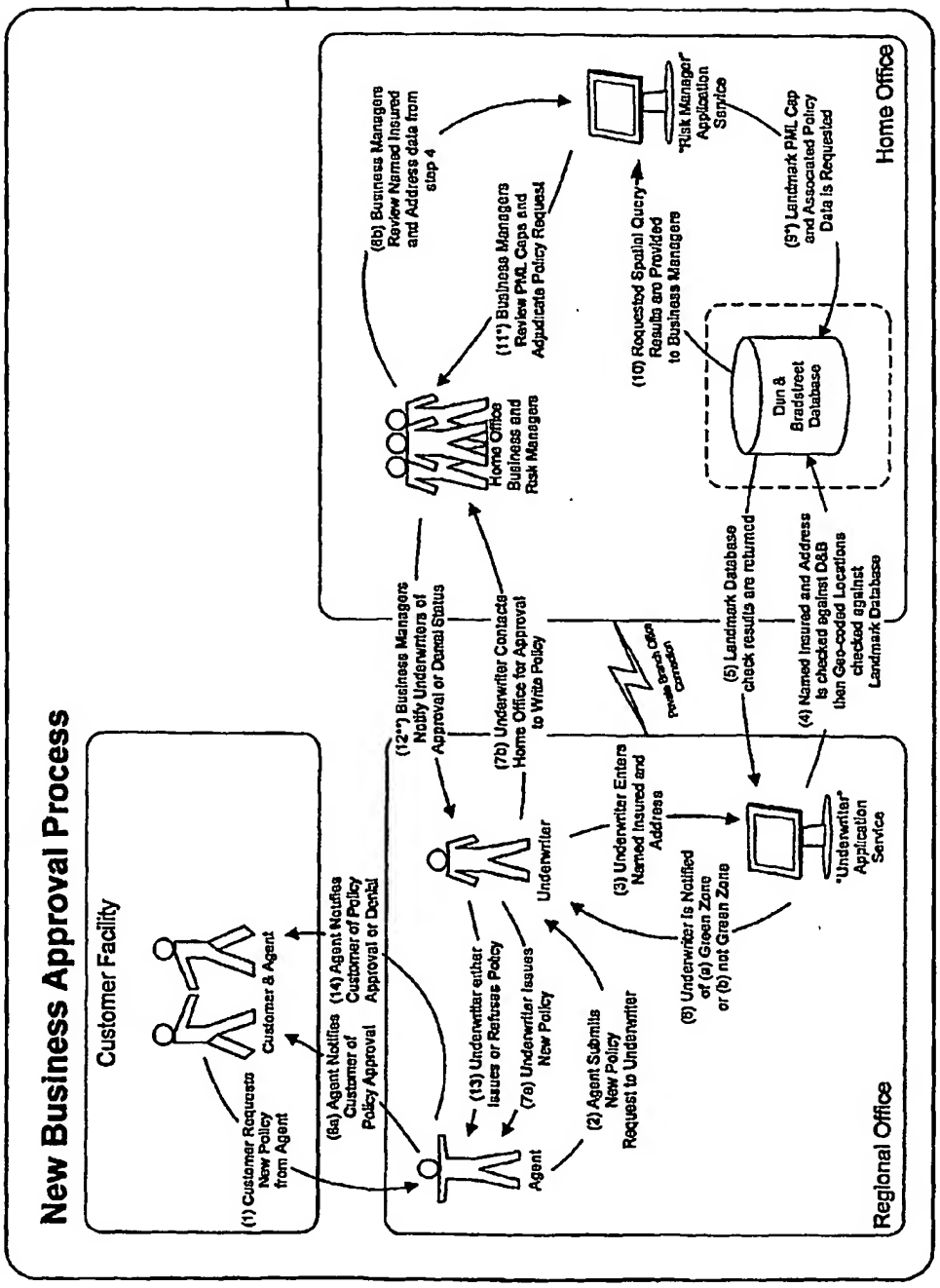

8700
System Service Context Diagram
Business Groups
Data Administration
I.T.
Data Formatting
Formatted Policy Data
Policy Data Sources
Outside Data Source
Data Vendor
Vendor Reference Data
Secure Hosting Services
Data Services
Score Card
Quality Assurance
Formatted Policy Data
Staging Data
D&B Reference Data
Reproject
Standard Reference Data
Address Cleanse
Geo-Code
Infrastructure Services
Production Data
Production Reference Data
User Profile Data
Client Services
"Risk Manager" Application Service
"Underwriter" Application Service
"Reporting" Application Service
"Administration" Application Service
"Additional Data" Application Service
"Portal Menu" Application Service
Business Users
Risk and Business Managers
Underwriters
Business Administrator
Data Administrators
Site Authentication

FIG. 88


8800
New Business Approval Process
Customer Facility
Customer & Agent
Agent
Underwriter
Regional Office
Home Office
Home Office Business and Risk Managers
Dun & Bradstreet Database
"Risk Manager" Application Service
"Underwriter" Application Service
(1) Customer Requests New Policy from Agent
(2) Agent Submits New Policy Request to Underwriter
(3) Underwriter Enters Named Insured and Address
(4) Named Insured and Address is checked against D&B then Geo-coded Locations checked against Landmark Database
(5) Landmark Database check results are returned
(6) Underwriter is Notified of (a) Green Zone or (b) not Green Zone
(7a) Underwriter Issues New Policy
(7b) Underwriter Contacts Home Office for Approval to Write Policy
(8a) Agent Notifies Customer of Policy Approval
(8b) Business Managers Review Named Insured and Address data from step 4
(9*) Landmark PML Cap and Associated Policy Data is Requested
(10) Requested Spatial Query Results are Provided to Business Managers
(11*) Business Managers Review PML Caps and Adjudicate Policy Request
(12**) Business Managers Notify Underwriters of Approval or Denial Status
(13) Underwriter either Issues or Refuses Policy
(14) Agent Notifies Customer of Policy Approval or Denial

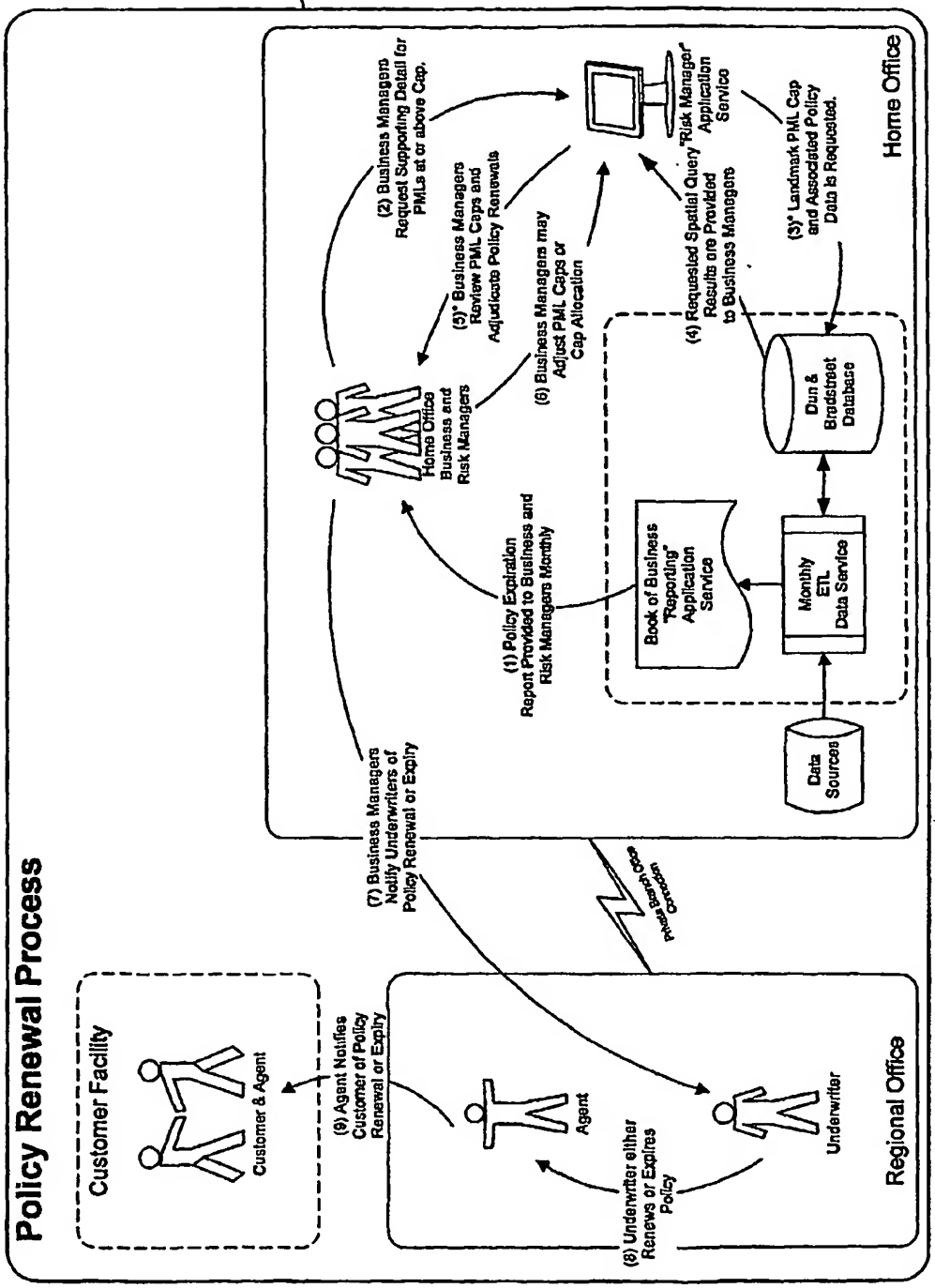

8900
Policy Renewal Process
Customer Facility
Customer & Agent
(9) Agent Notifies Customer of Policy Renewal or Expiry
Agent
Underwriter
(8) Underwriter either Renews or Expires Policy
Regional Office
(7) Business Managers Notify Underwriters of Policy Renewal or Expiry
Home Office
(2) Business Managers Request Supporting Detail for PMLs at or above Cap.
(5)* Business Managers Review PML Caps and Adjudicate Policy Renewals
(6) Business Managers may Adjust PML Caps or Cap Allocation
"Risk Manager" Application Service
(4) Requested Spatial Query Results are Provided to Business Managers
(3)* Landmark PML Cap and Associated Policy Data is Requested.
Home Office Business and Risk Managers
Dun & Bradstreet Database
(1) Policy Expiration Report Provided to Business and Risk Managers Monthly
Book of Business "Reporting" Application Service
Monthly ETL Data Service
Data Sources

FIG. 89

FIG. 90

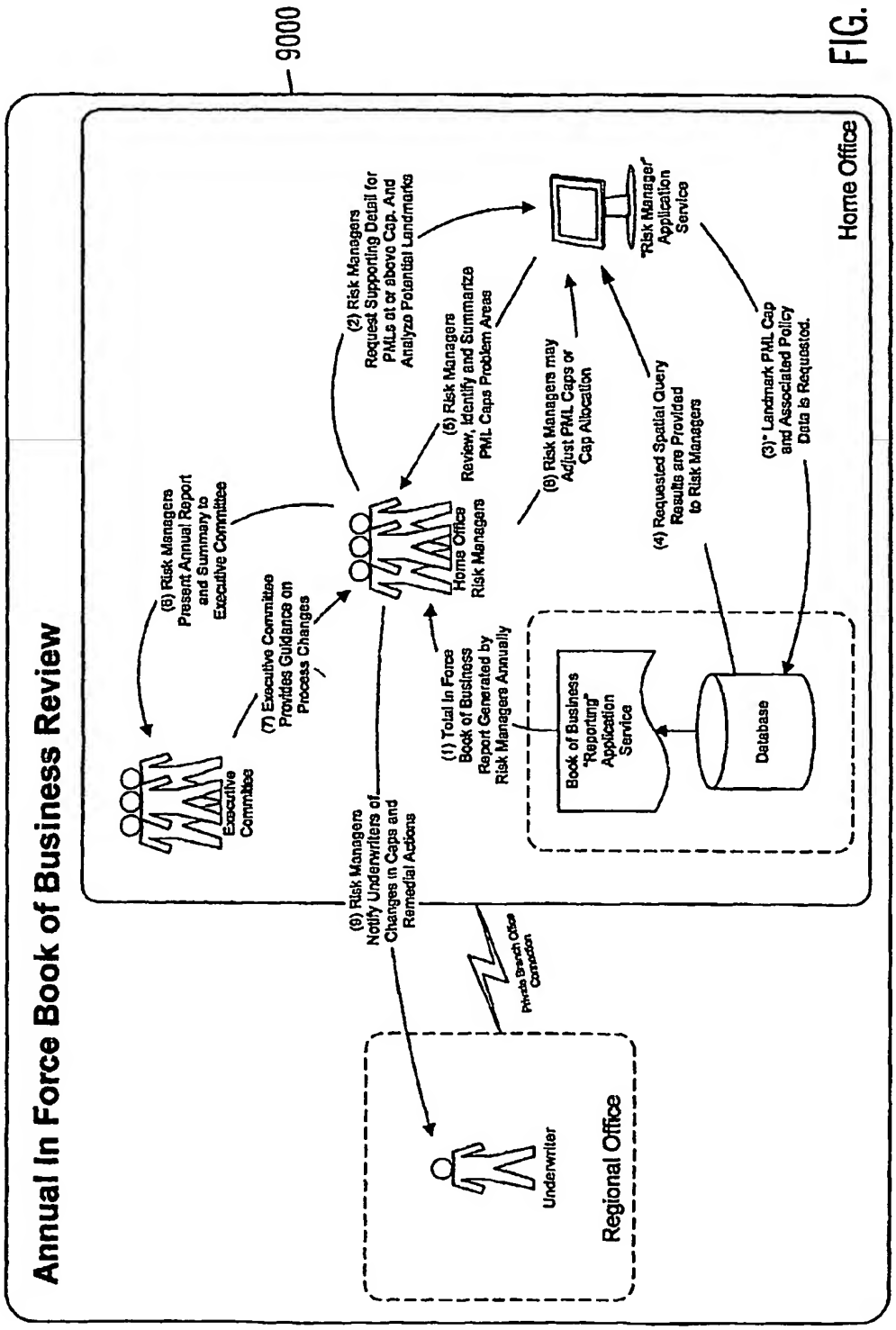

9000
Annual In Force Book of Business Review
Home Office
Regional Office
Executive Committee
Home Office Risk Managers
Book of Business "Reporting" Application Service
Database
Underwriter
Private Branch Office Connection
"Risk Manager" Application Service
(1) Total In Force Book of Business Report Generated by Risk Managers Annually
(2) Risk Managers Request Supporting Detail for PMLs at or above Cap, And Analyze Potential Landmarks
(3)* Landmark PML Cap and Associated Policy Data is Requested.
(4) Requested Spatial Query Results are Provided to Risk Managers
(5) Risk Managers Review, Identify and Summarize PML Caps Problem Areas
(6) Risk Managers Present Annual Report and Summary to Executive Committee
(7) Executive Committee Provides Guidance on Process Changes
(8) Risk Managers may Adjust PML Caps or Cap Allocation
(9) Risk Managers Notify Underwriters of Changes in Caps and Remedial Actions

FIG. 91

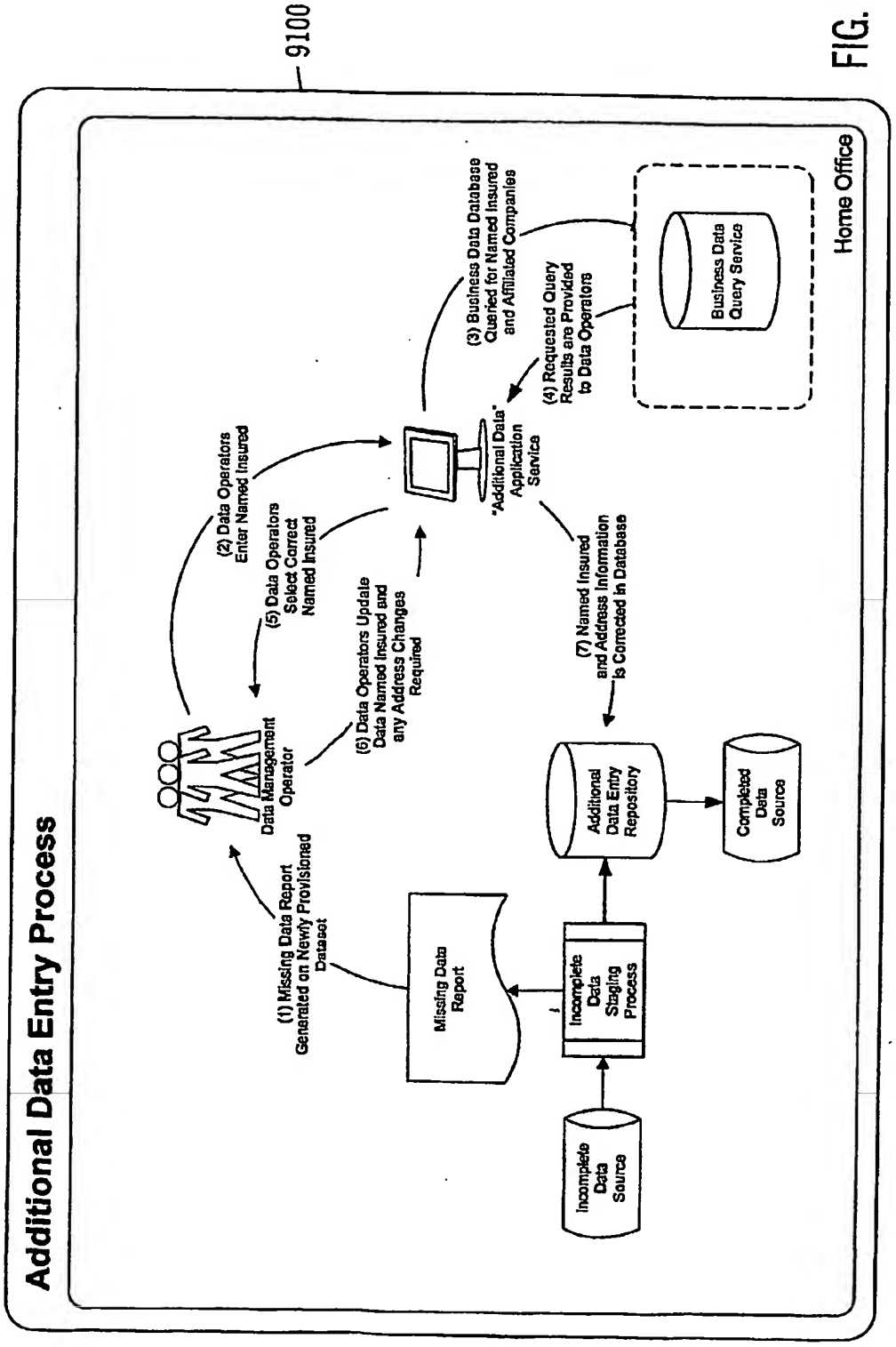
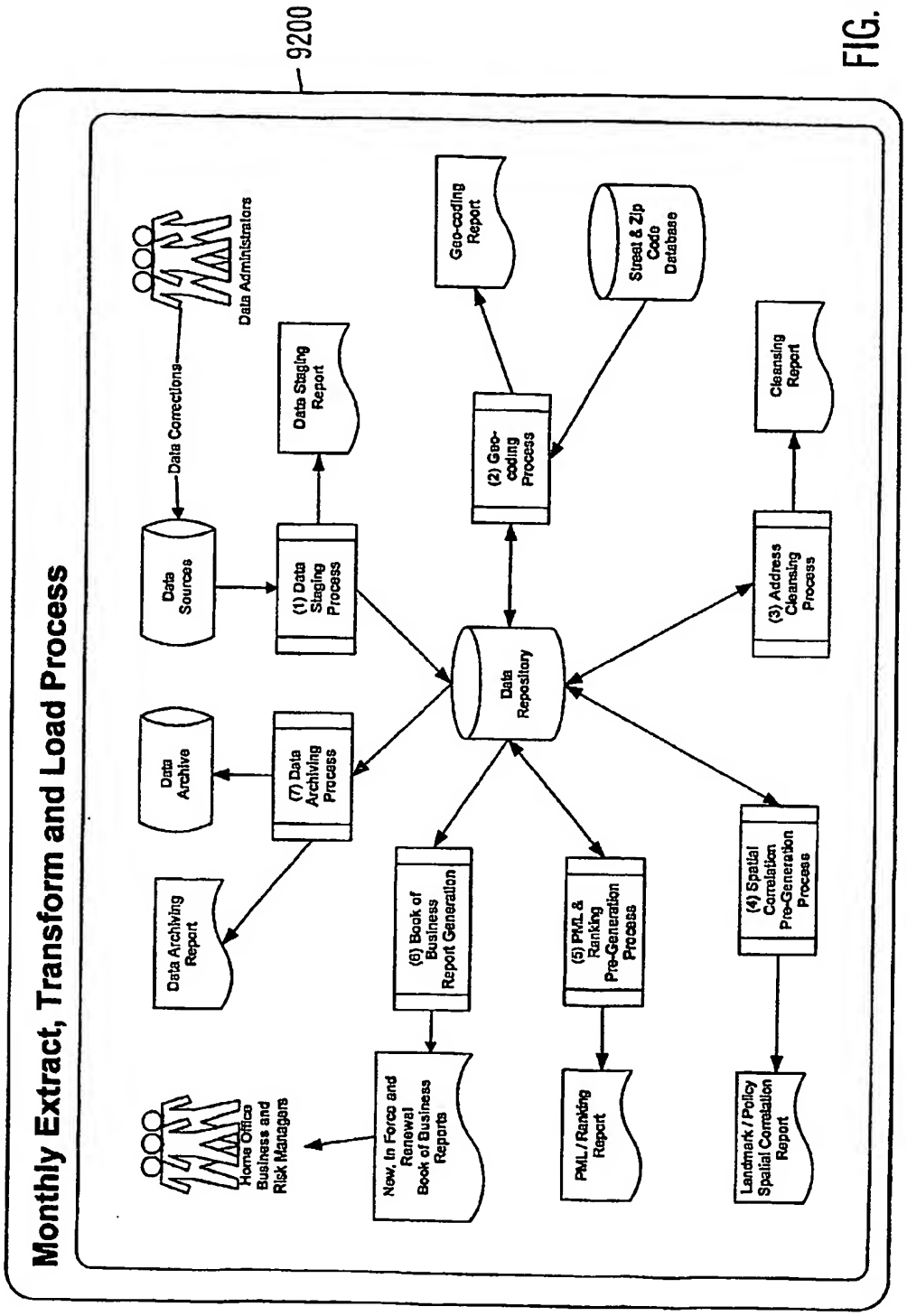

9100
Additional Data Entry Process
Home Office
Business Data Query Service
(3) Business Data Database Queried for Named Insured and Affiliated Companies
(4) Requested Query Results are Provided to Data Operators
"Additional Data" Application Service
(2) Data Operators Enter Named Insured
(5) Data Operators Select Correct Named Insured
(6) Data Operators Update Data Named Insured and any Address Changes Required
(7) Named Insured and Address Information is Corrected in Database
Data Management Operator
Additional Data Entry Repository
Completed Data Source
(1) Missing Data Report Generated on Newly Provisioned Dataset
Missing Data Report
Incomplete Data Staging Process
Incomplete Data Source

FIG. 92


9200
Monthly Extract, Transform and Load Process
Data Administrators
Data Corrections
Data Sources
(1) Data Staging Process
Data Staging Report
Geo-coding Report
Street & Zip Code Database
(2) Geo-coding Process
Cleansing Report
(3) Address Cleansing Process
Data Repository
Data Archive
(7) Data Archiving Process
Data Archiving Report
(6) Book of Business Report Generation
(5) PML & Ranking Pre-Generation Process
(4) Spatial Correlation Pre-Generation Process
Home Office Business and Risk Managers
New, In Force and Renewal Book of Business Reports
PML / Ranking Report
Landmark / Policy Spatial Correlation Report

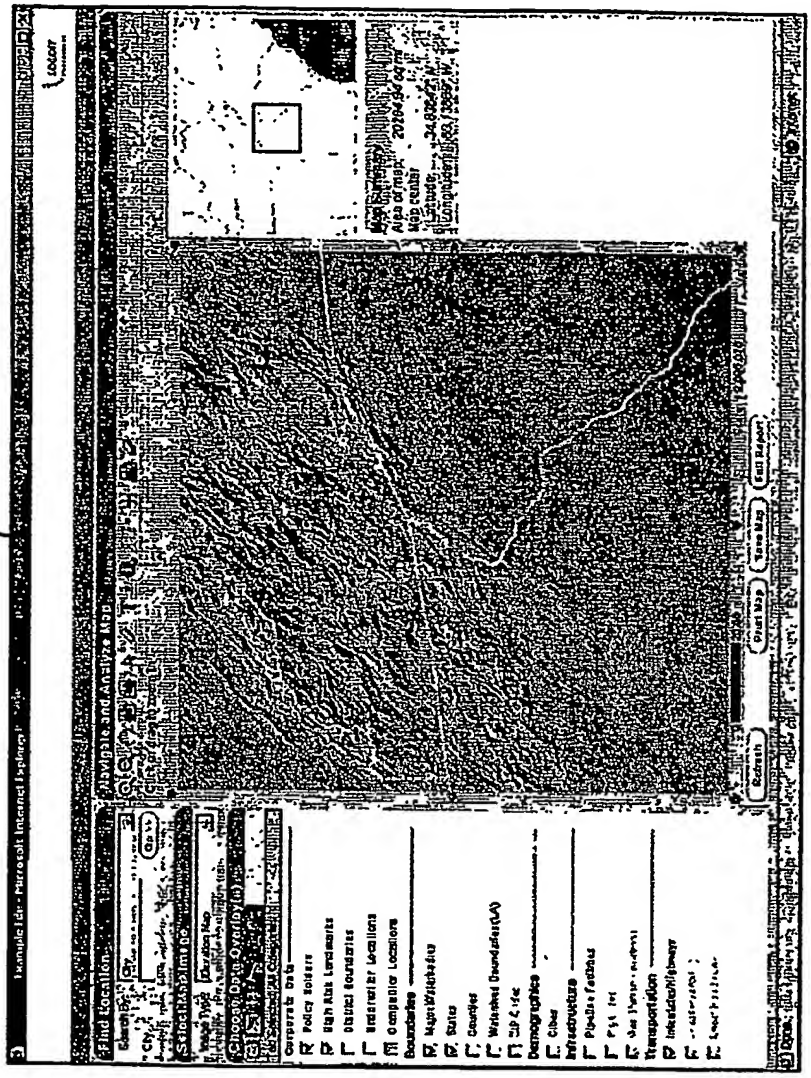


FIG. 93

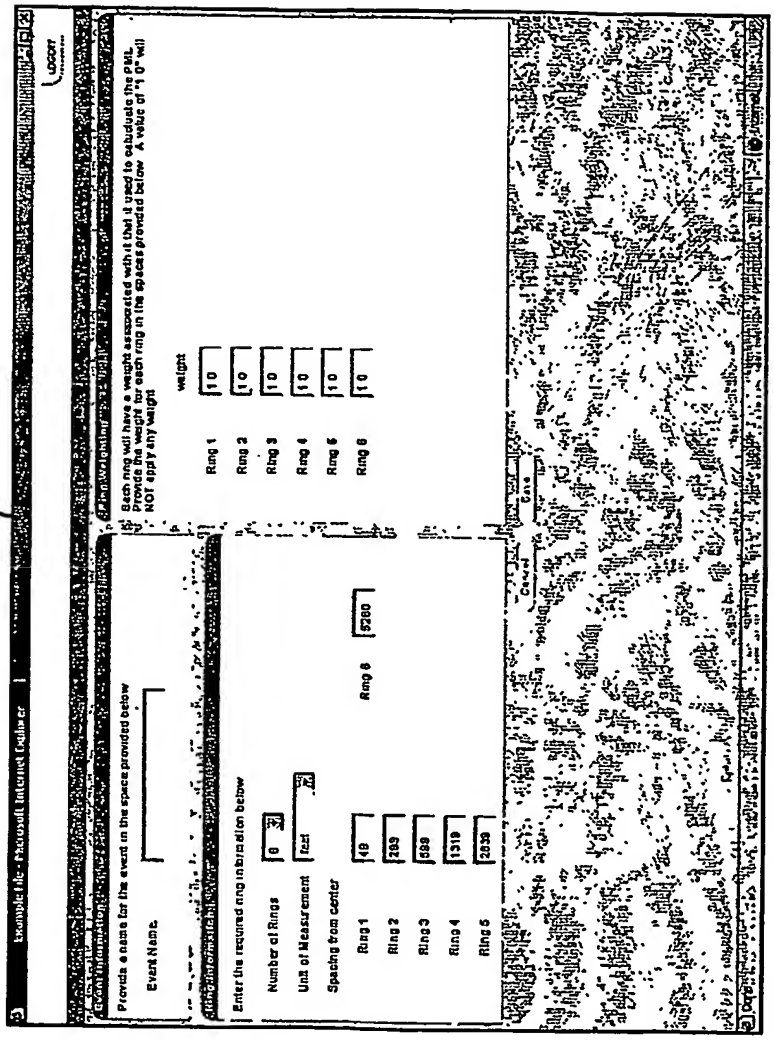

9400
Example.fhc - Microsoft Internet Explorer
Provide a name for the event in the space provided below
Event Name
Enter the required ring information below
Number of Rings
Unit of Measurement
Spacing from center
Ring 1
Ring 2
Ring 3
Ring 4
Ring 5
Ring 6
Each ring will have a weight associated with it that is used to calculate the PWL. Provide the weight for each ring in the spaces provided below. A value of "1.0" will NOT apply any weight
weight
Ring 1
Ring 2
Ring 3
Ring 4
Ring 5
Ring 6

FIG. 94

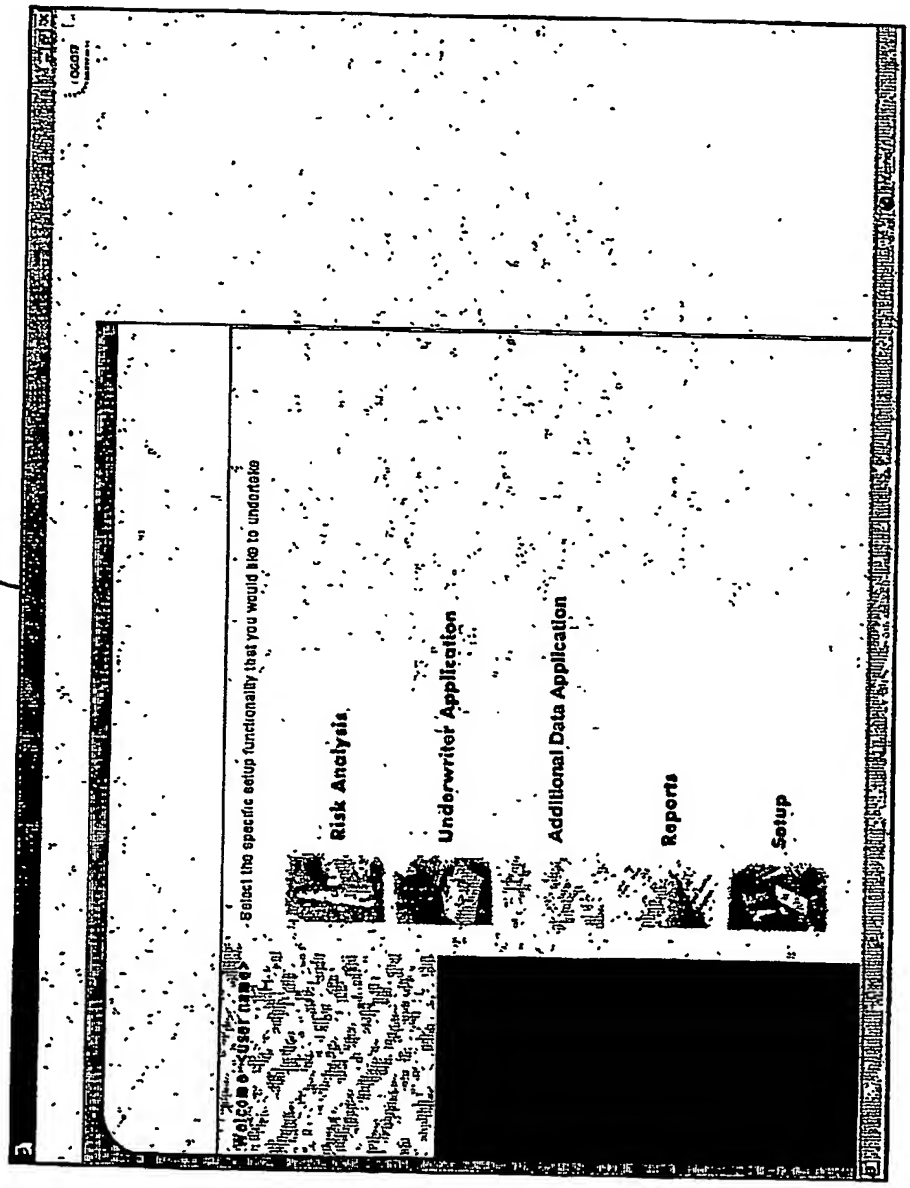

9500
Select the specific setup functionality that you would like to undertake
Risk Analysis
Underwriter Application
Additional Data Application
Reports
Setup

FIG. 95

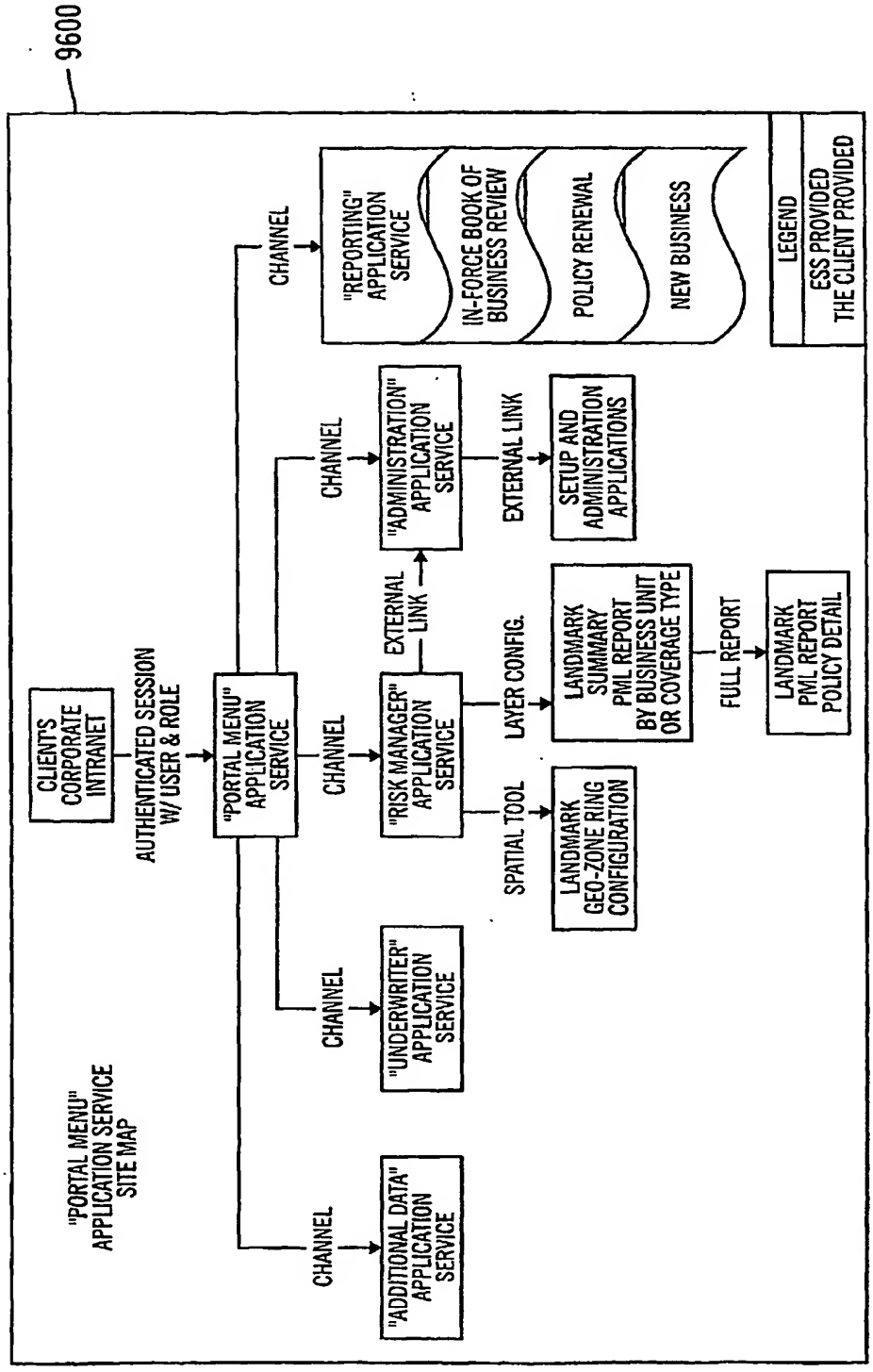

9600
"PORTAL MENU" APPLICATION SERVICE SITE MAP
CLIENTS CORPORATE INTRANET
AUTHENTICATED SESSION W/ USER & ROLE
"PORTAL MENU" APPLICATION SERVICE
CHANNEL
"REPORTING" APPLICATION SERVICE
IN-FORCE BOOK OF BUSINESS REVIEW
POLICY RENEWAL
NEW BUSINESS
LEGEND
ESS PROVIDED
THE CLIENT PROVIDED
CHANNEL
"ADMINISTRATION" APPLICATION SERVICE
EXTERNAL LINK
SETUP AND ADMINISTRATION APPLICATIONS
CHANNEL
"RISK MANAGER" APPLICATION SERVICE
EXTERNAL LINK
LAYER CONFIG.
LANDMARK SUMMARY PML REPORT BY BUSINESS UNIT OR COVERAGE TYPE
FULL REPORT
LANDMARK PML REPORT POLICY DETAIL
SPATIAL TOOL
LANDMARK GEO-ZONE RING CONFIGURATION
CHANNEL
"UNDERWRITER" APPLICATION SERVICE
CHANNEL
"ADDITIONAL DATA" APPLICATION SERVICE

FIG. 96

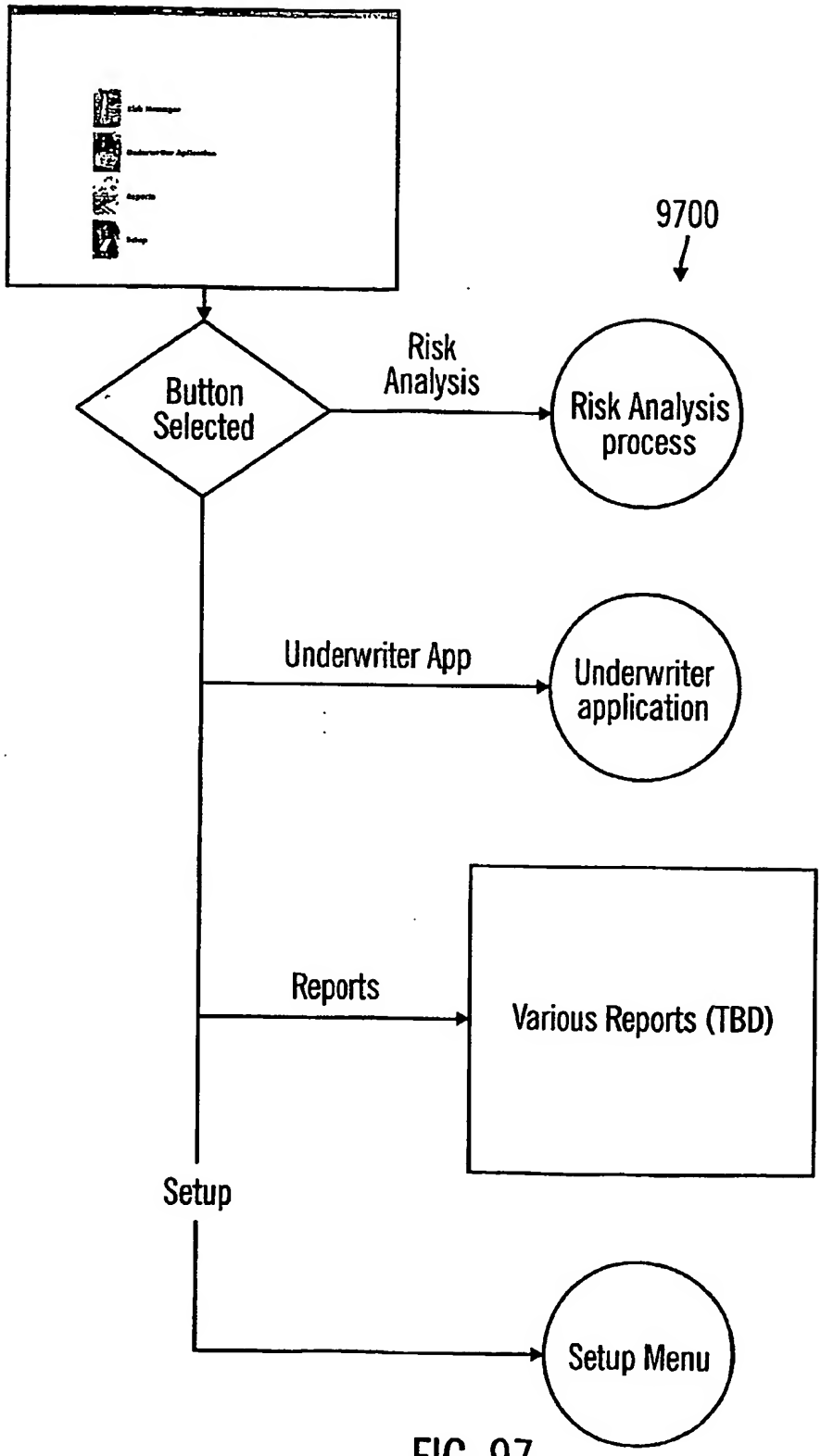

9700
Button Selected
Risk Analysis
Risk Analysis process
Underwriter App
Underwriter application
Reports
Various Reports (TBD)
Setup
Setup Menu

FIG. 97

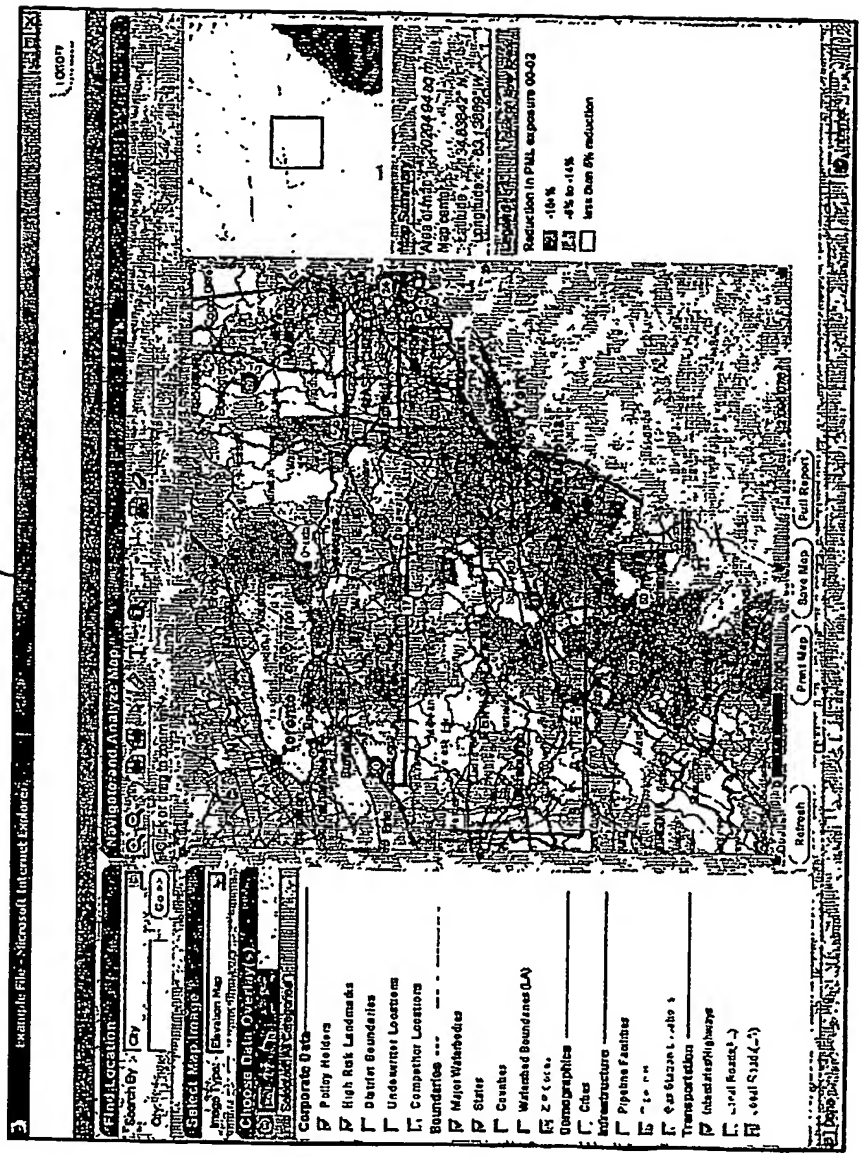

9800
Example File - Microsoft Internet Explorer
Navigator and Address Map
Find Location
Search By
City
Select Map Image
Image Type
Elevation Map
Choose Data Overlay(s)
Corporate Data
Policy Holders
High Risk Landmarks
District Boundaries
Underwriter Locations
Competitor Locations
Boundaries
Major Waterbodies
States
Counties
Metadata Boundaries (LA)
Demographics
Cities
Infrastructure
Pipeline Facilities
Transportation
Refresh
Print Map
Save Map
Full Report
Reduction in PM2.5 exposure 00-02
-10+%
-4% to -10%
less than 4% reduction

FIG. 98

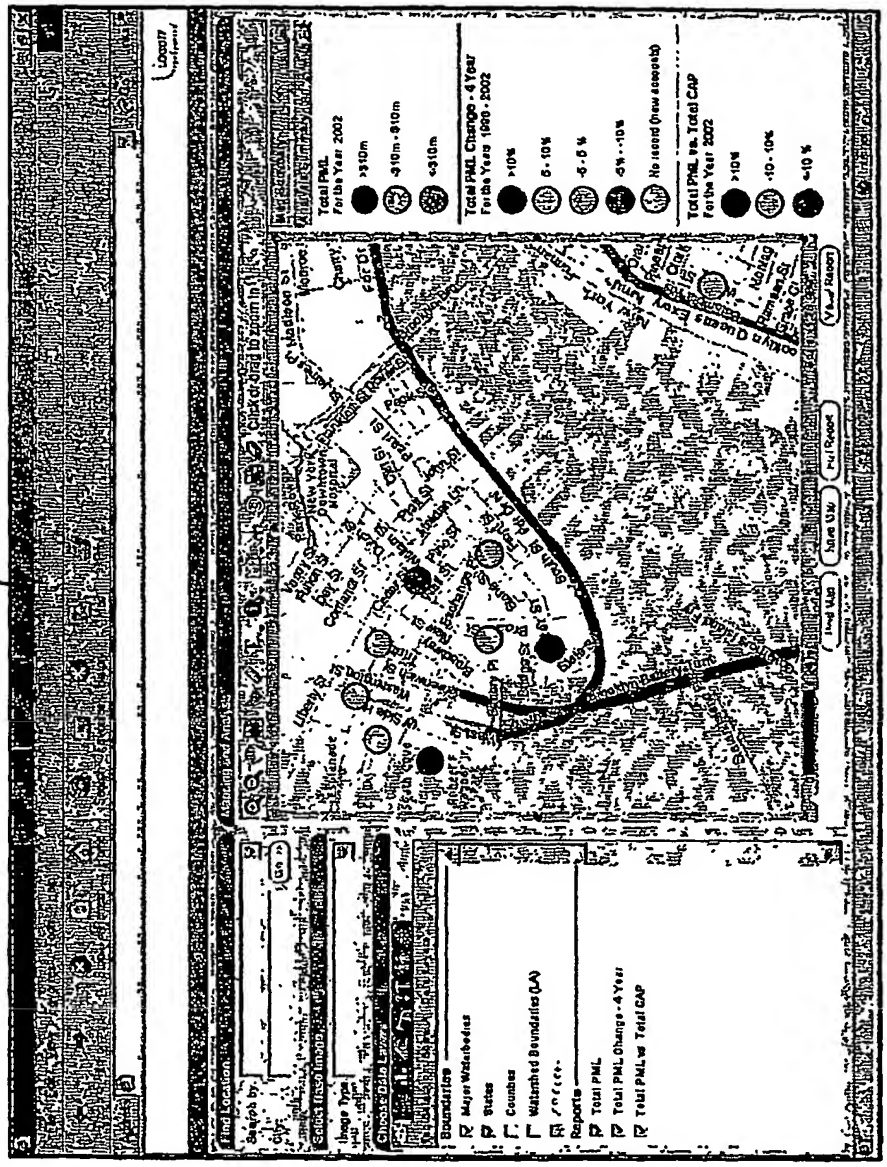

9900
Total PML For the Year 2002
>510m
310m - 510m
<310m
Total PML Change - 4 Year For the Years 1998 - 2002
>10%
5 - 10%
0 - 5 %
-5% - -10%
No record (new stream)
Total PML vs. Total CAP For the Year 2002
>10%
-10 - -10%
<-10 %
Boundaries
Major Watersheds
States
Counties
Watershed Boundaries (HA)
Reports
Total PML
Total PML Change - 4 Year
Total PML vs. Total CAP

FIG. 99

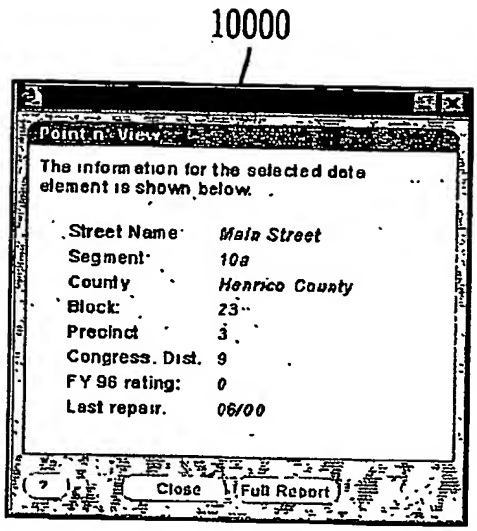

10000
Point n View
The information for the selected data element is shown below.
Street Name: Main Street
Segment: 10a
County: Henrico County
Block: 23
Precinct: 3
Congress. Dist. 9
FY 96 rating: 0
Last repair. 06/00
?
Close
Full Report

FIG. 100

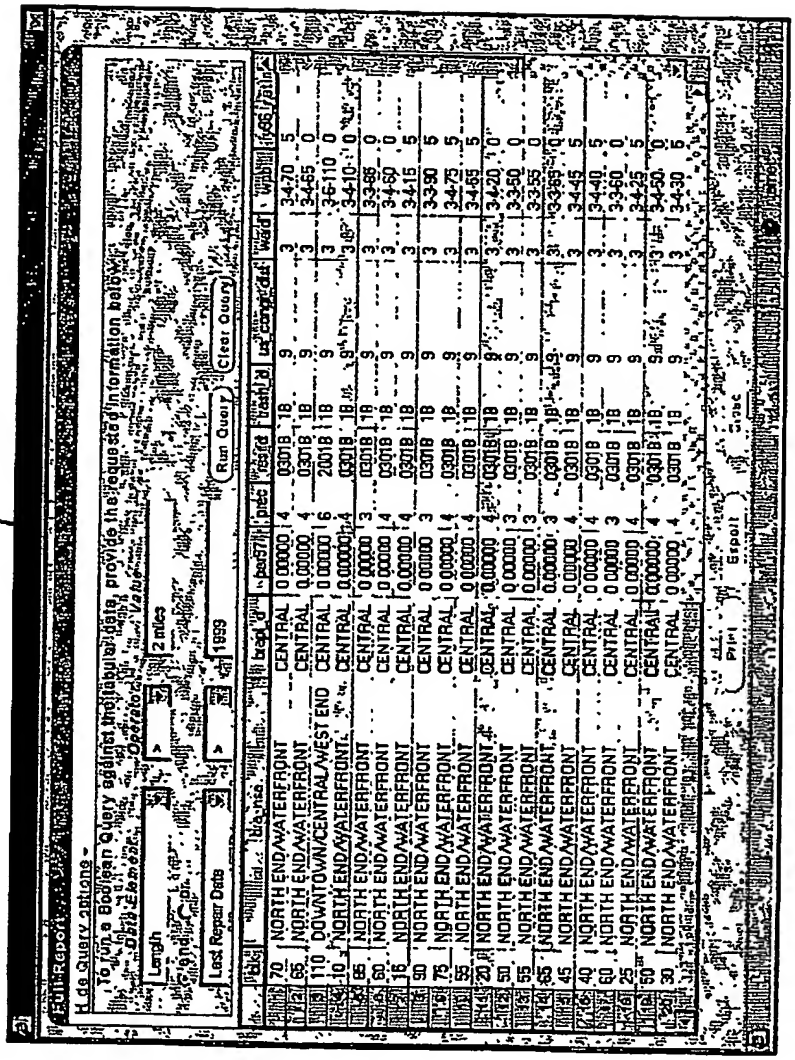


FIG. 101

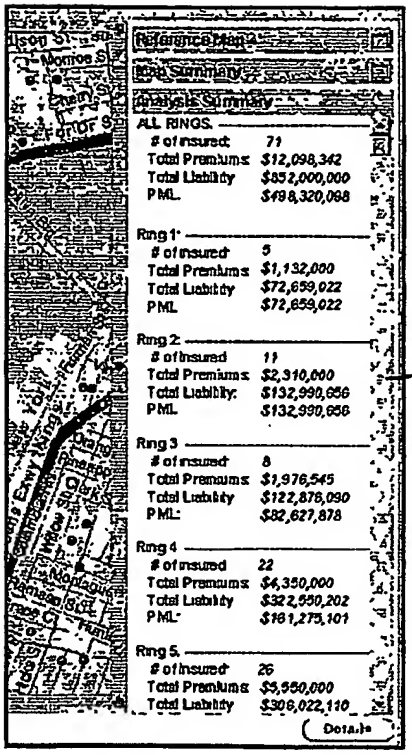

Reference Map
Risk Summary
Analysis Summary
ALL RINGS
# of Insured: 71
Total Premiums: $12,098,342
Total Liability $852,000,000
PML $498,320,088
Ring 1
# of Insured 5
Total Premiums: $1,132,000
Total Liability $72,659,022
PML $72,659,022
Ring 2
# of Insured 11
Total Premiums: $2,310,000
Total Liability: $132,990,656
PML $132,990,656
Ring 3
# of Insured 8
Total Premiums: $1,976,545
Total Liability $122,876,090
PML: $82,627,878
Ring 4
# of Insured 22
Total Premiums: $4,350,000
Total Liability $322,550,202
PML: $161,275,101
Ring 5
# of Insured 26
Total Premiums: $5,550,000
Total Liability $306,022,110
Details
10200

FIG. 102

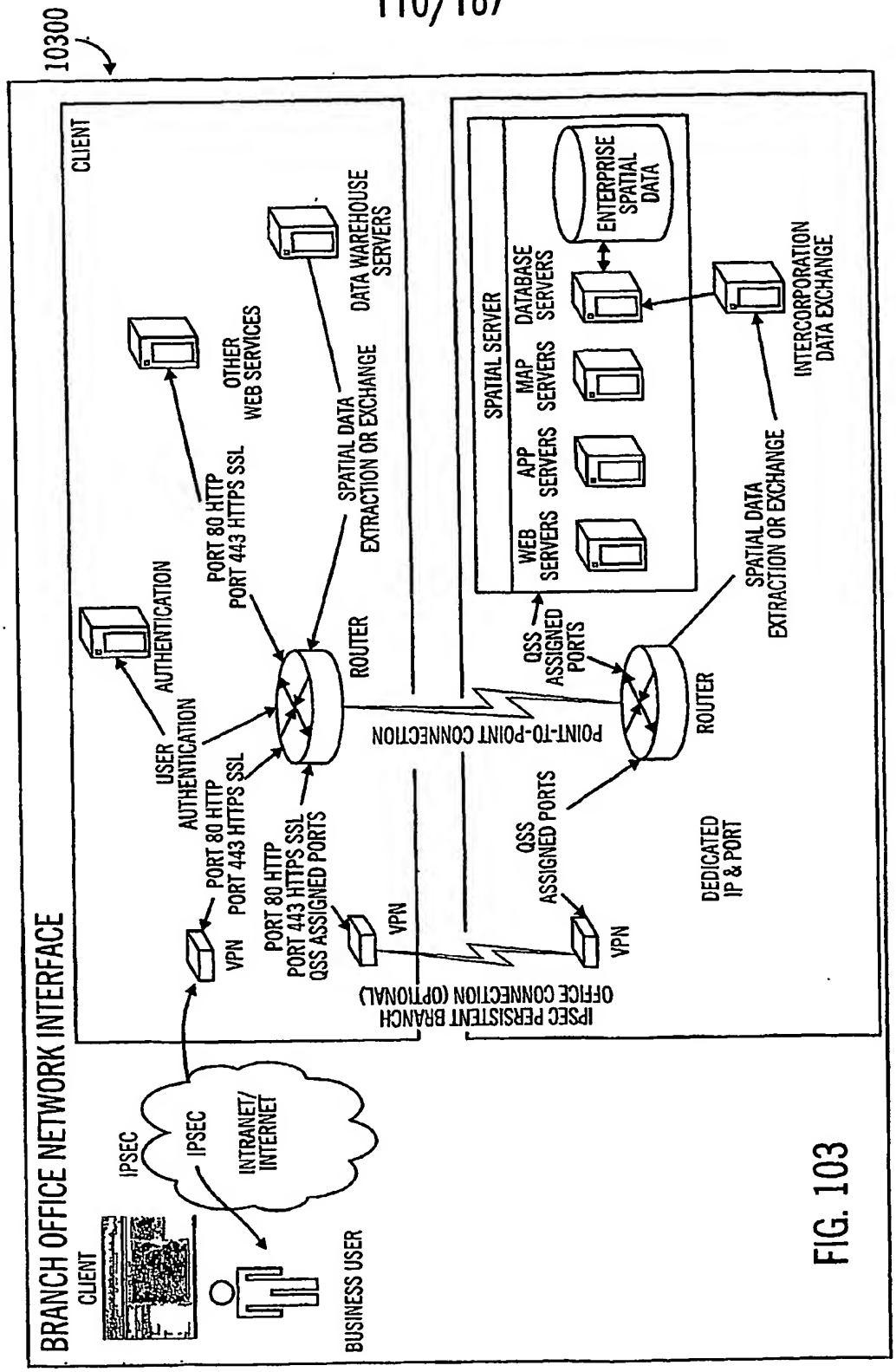

10300
BRANCH OFFICE NETWORK INTERFACE
CLIENT
IPSEC
IPSEC
INTRANET/ INTERNET
CLIENT
BUSINESS USER
IPSEC PERSISTENT BRANCH OFFICE CONNECTION (OPTIONAL)
VPN
VPN
PORT 80 HTTP
PORT 443 HTTPS SSL
PORT 80 HTTP
PORT 443 HTTPS SSL
QSS ASSIGNED PORTS
QSS ASSIGNED PORTS
DEDICATED IP & PORT
USER AUTHENTICATION
AUTHENTICATION
ROUTER
ROUTER
POINT-TO-POINT CONNECTION
PORT 80 HTTP
PORT 443 HTTPS SSL
OTHER WEB SERVICES
DATA WAREHOUSE SERVERS
SPATIAL DATA EXTRACTION OR EXCHANGE
SPATIAL DATA EXTRACTION OR EXCHANGE
SPATIAL SERVER
WEB SERVERS
APP SERVERS
MAP SERVERS
DATABASE SERVERS
ENTERPRISE SPATIAL DATA
INTERCORPORATION DATA EXCHANGE

FIG. 103

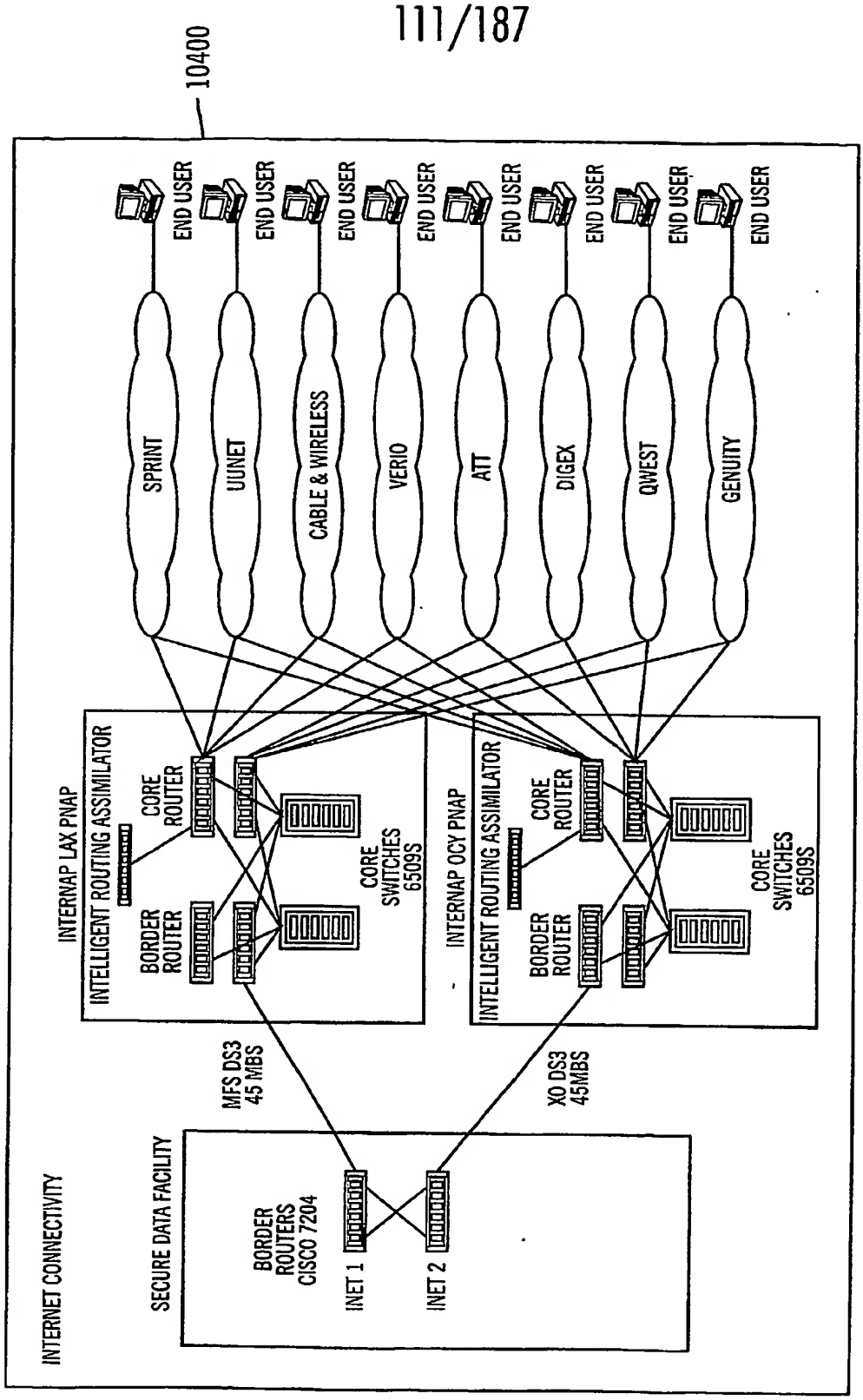

10400
END USER
END USER
END USER
END USER
END USER
END USER
END USER
END USER
SPRINT
UUNET
CABLE & WIRELESS
VERIO
ATT
DIGEX
QWEST
GENUITY
INTERNAP LAX PNAP
INTELLIGENT ROUTING ASSIMILATOR
CORE ROUTER
BORDER ROUTER
CORE SWITCHES 6509S
INTERNAP OCY PNAP
INTELLIGENT ROUTING ASSIMILATOR
CORE ROUTER
BORDER ROUTER
CORE SWITCHES 6509S
MFS DS3 45 MBS
XO DS3 45MBS
INTERNET CONNECTIVITY
SECURE DATA FACILITY
BORDER ROUTERS CISCO 7204
INET 1
INET 2

FIG. 104

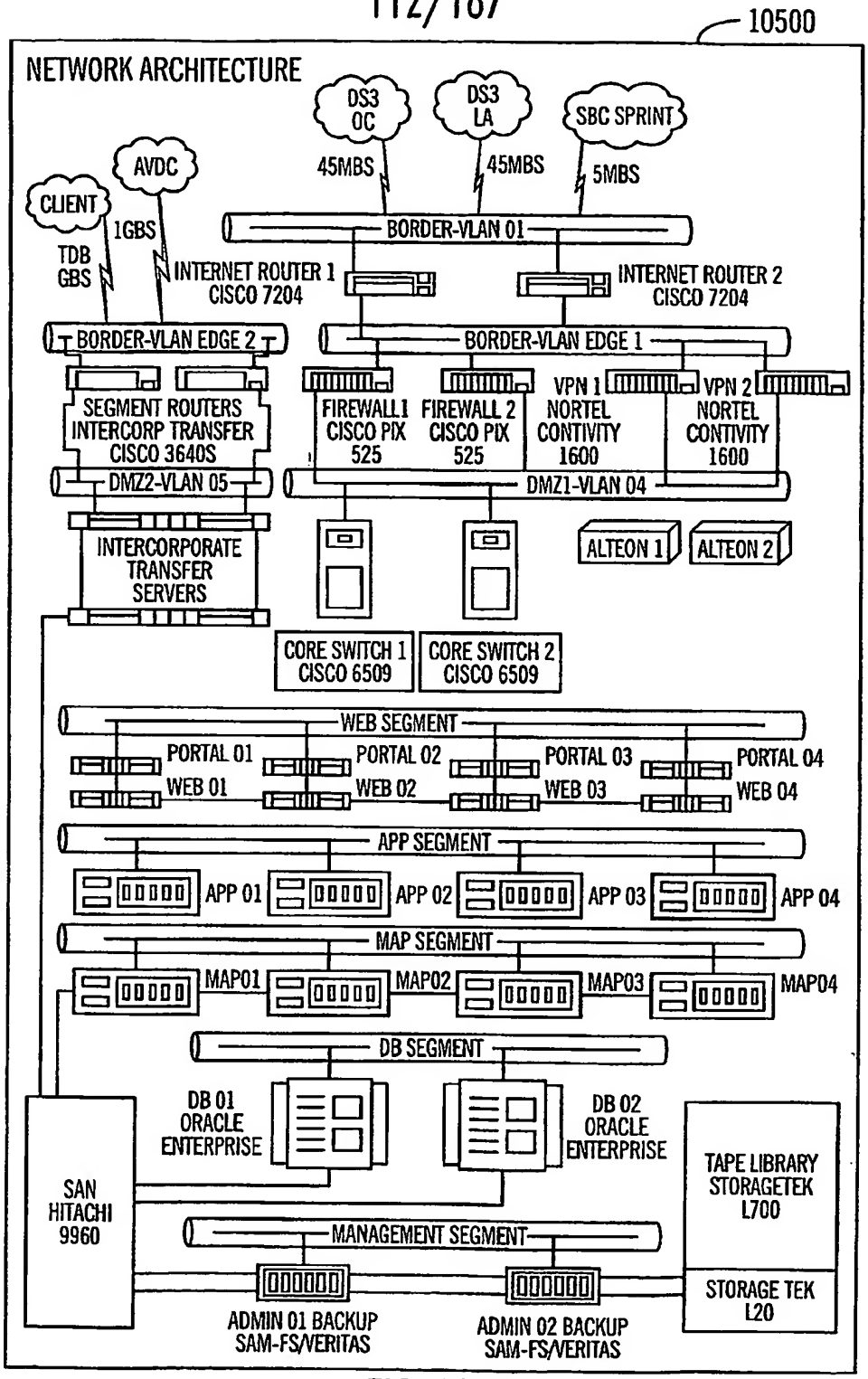

10500
NETWORK ARCHITECTURE
DS3 OC
DS3 LA
SBC SPRINT
45MBS
45MBS
5MBS
AVDC
CLIENT
1GBS
TDB GBS
BORDER-VLAN 01
INTERNET ROUTER 1 CISCO 7204
INTERNET ROUTER 2 CISCO 7204
BORDER-VLAN EDGE 2
BORDER-VLAN EDGE 1
SEGMENT ROUTERS INTERCORP TRANSFER CISCO 3640S
FIREWALL1 CISCO PIX 525
FIREWALL 2 CISCO PIX 525
VPN 1 NORTEL CONTIVITY 1600
VPN 2 NORTEL CONTIVITY 1600
DMZ2-VLAN 05
DMZ1-VLAN 04
INTERCORPORATE TRANSFER SERVERS
ALTEON 1
ALTEON 2
CORE SWITCH 1 CISCO 6509
CORE SWITCH 2 CISCO 6509
WEB SEGMENT
PORTAL 01
PORTAL 02
PORTAL 03
PORTAL 04
WEB 01
WEB 02
WEB 03
WEB 04
APP SEGMENT
APP 01
APP 02
APP 03
APP 04
MAP SEGMENT
MAP01
MAP02
MAP03
MAP04
DB SEGMENT
DB 01 ORACLE ENTERPRISE
DB 02 ORACLE ENTERPRISE
SAN HITACHI 9960
TAPE LIBRARY STORAGETEK L700
MANAGEMENT SEGMENT
STORAGE TEK L20
ADMIN 01 BACKUP SAM-FS/VERITAS
ADMIN 02 BACKUP SAM-FS/VERITAS

FIG. 105

10600

application services	usage restriction type	Maximum Concurrent users	Maximum Named users
"Risk Manager"	Named	10	10
"Administrator"	Named	5	5
"Reporting"	Concurrent	25	1500
"Underwriter"	Concurrent	200	1500

FIG. 106

10700

application services	Logical Roles		
	Corporate	Management	Underwriter
"Risk Manager"	X	X	-
"Administrator"	X*	-	-
"Reporting"	X	X	-
"Underwriter"	X	X	X

FIG. 107

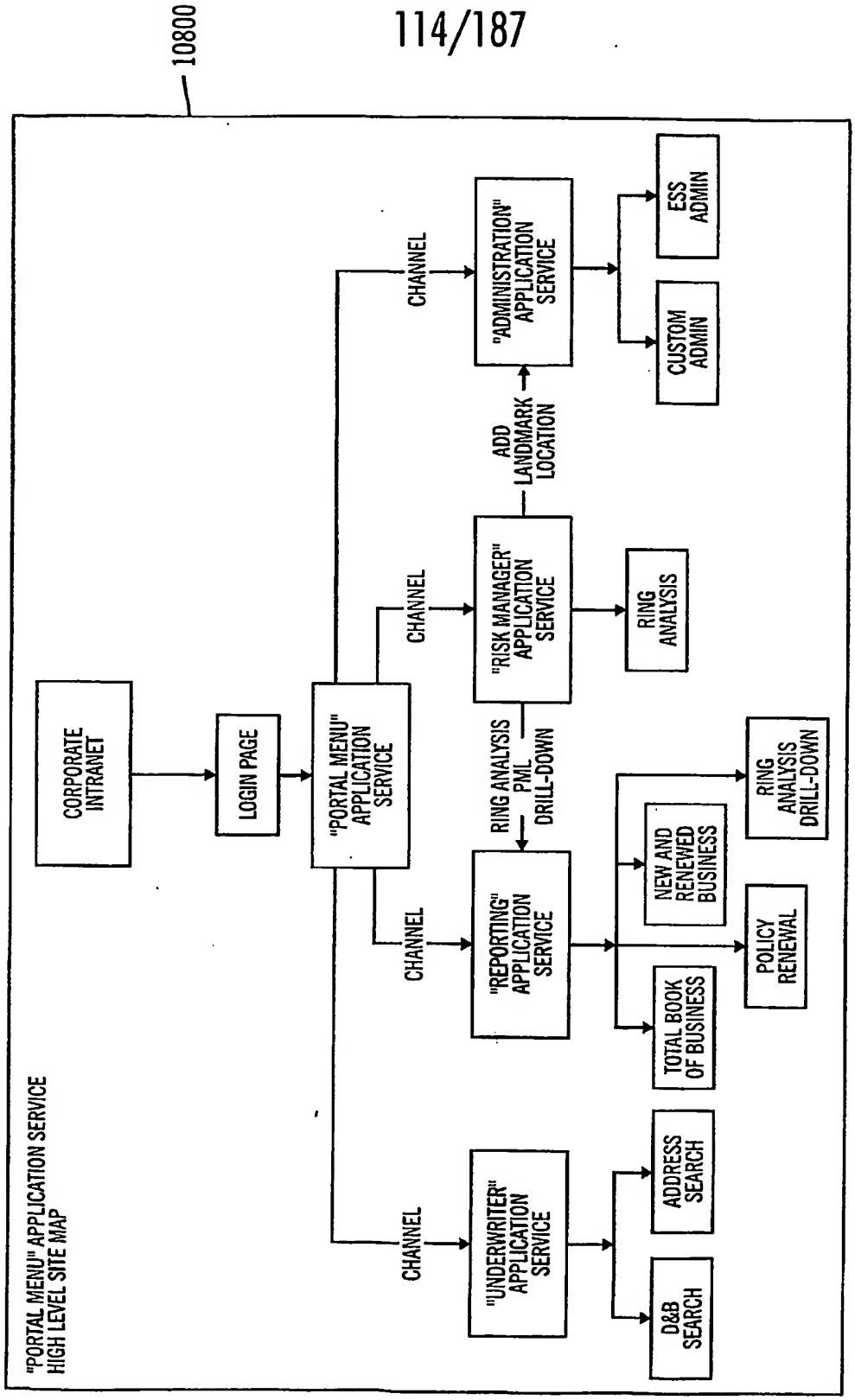

10800
"PORTAL MENU" APPLICATION SERVICE
HIGH LEVEL SITE MAP
CORPORATE INTRANET
LOGIN PAGE
"PORTAL MENU" APPLICATION SERVICE
CHANNEL
"ADMINISTRATION" APPLICATION SERVICE
ESS ADMIN
CUSTOM ADMIN
ADD LANDMARK LOCATION
CHANNEL
"RISK MANAGER" APPLICATION SERVICE
RING ANALYSIS
RING ANALYSIS PML DRILL-DOWN
CHANNEL
"REPORTING" APPLICATION SERVICE
NEW AND RENEWED BUSINESS
RING ANALYSIS DRILL-DOWN
POLICY RENEWAL
TOTAL BOOK OF BUSINESS
CHANNEL
"UNDERWRITER" APPLICATION SERVICE
ADDRESS SEARCH
D&B SEARCH

FIG. 108

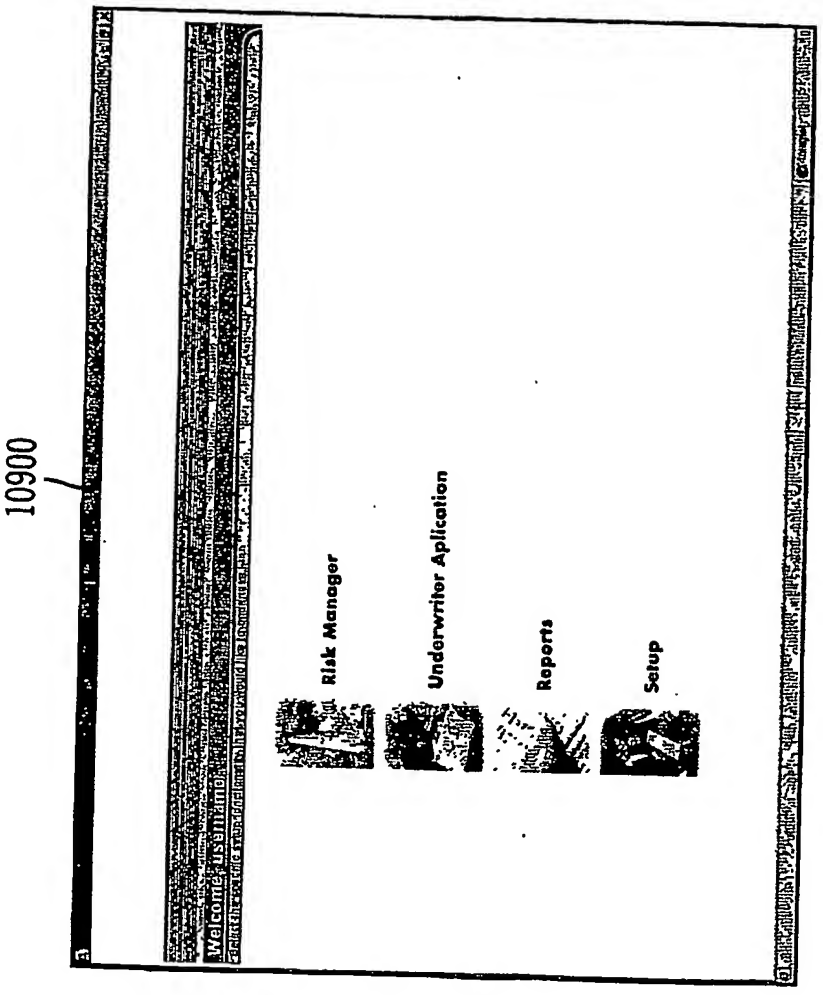

10900
Welcome
Risk Manager
Underwriter Aplication
Reports
Setup

FIG. 109

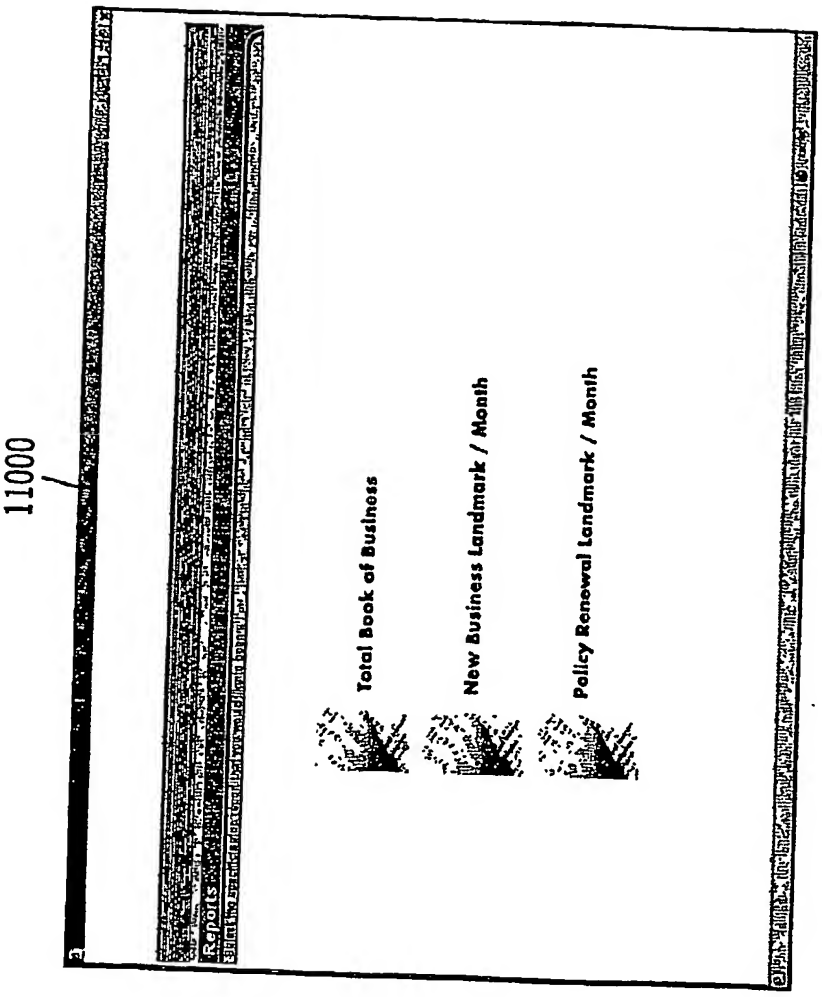

11000
Total Book of Business
New Business Landmark / Month
Policy Renewal Landmark / Month

FIG. 110

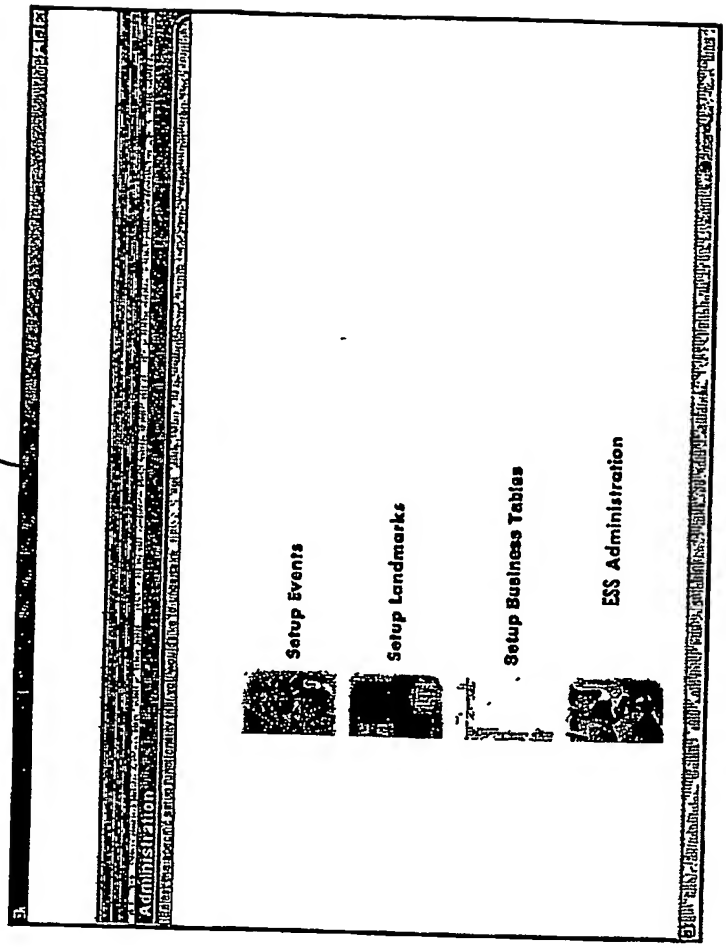

11100
Administration
Setup Events
Setup Landmarks
Setup Business Tables
ESS Administration

FIG. 111

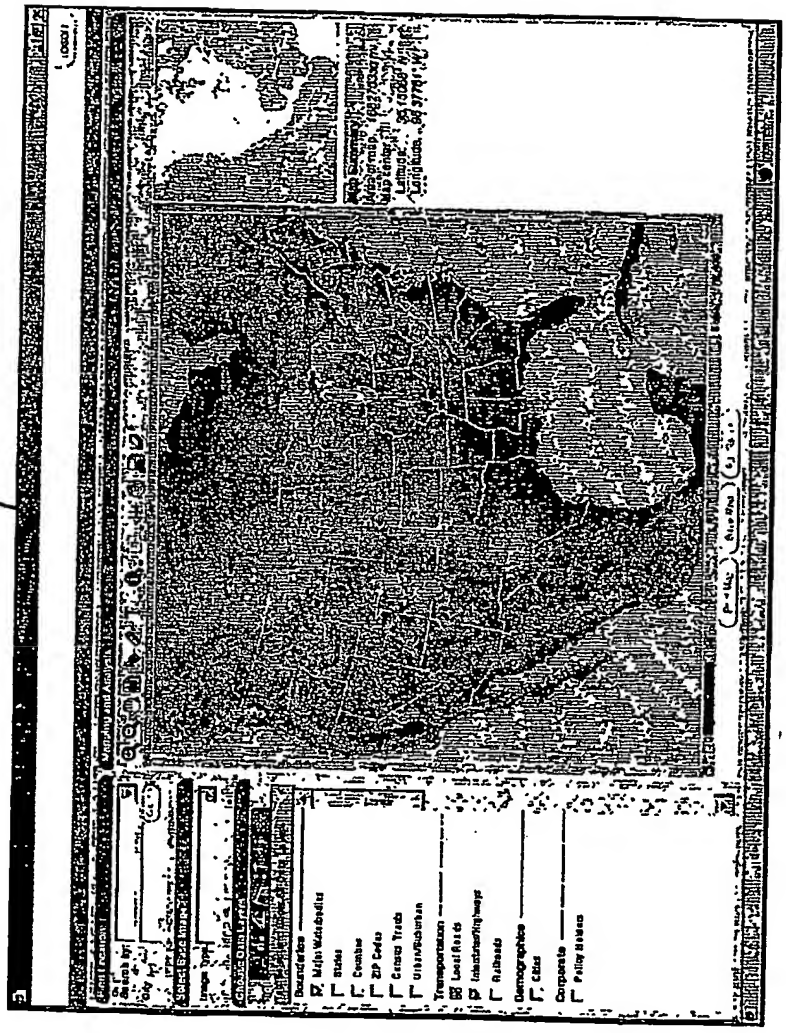


FIG. 112

11300

Group	Logical Layer Name	Physical Layer
Corporate	landmark Locations	database landmark_location_view table where policy_batch_num = <current> Viewable at all Zoom Scales
	policy locations (Aug '02)	database policy_location_view table where policy_batch_num = <Aug '02 batch #> (See DB section for role based filters) Viewable at or below 1:25000 Zoom Scale
	policy locations (Nov '01)	database policy_location_view table where policy_batch_num = <Nov '01 batch #> (See DB section for role based filters) Viewable at or below 1:25000 Zoom Scale
	policy locations (Gold)	database policy_location_view table where policy_batch_num = <Gold batch #> (See DB section for role based filters) Viewable at or below 1:25000 Zoom Scale
Boundaries	Counties	Standard
	States	Standard
	Oceans & Lakes	Standard
	ZIP/Postal codes	Standard
	Urban/Suburban	Standard
Transportation	Roads	Standard
	/Highways	Standard
	Railroads	Standard
Points of Interest	Cities	Standard
Imagery	Elevation	Standard
	Color Imagery (DOQQ)	enterprise spatial system Premium
	DRG	enterprise spatial system Premium

FIG 113

11400

#	Point-n-View Name	user Friendly Name	Database Field
1	landmark Name	landmark Name	landmark_location_view.LANDMARK_NM
2	Address	Street Address	landmark_location_view.STREET_ADDR
		City	landmark_location_view.CITY_NM
		State	landmark_location_view.STATE_ABBR
		Zip code	landmark_location_view.ZIP_CD
		Zip code + 4	landmark_location_view.ZIP_PLUS4_CD
3	landmark rating	landmark rating Number	landmark_location_view.PML_RATING_NUM
		landmark rating code	landmark_location_view.PML_RATING_GROUP_CD

FIG. 114

11500

#	Point-n-View Name	user Friendly Name	Database Field
1	Business Unit	Business Unit	policy_location_view.BUSINESS_UNIT_ID
2	policy #	RO	policy_location_view.REGIONAL_OFFICE_CD
		Symbol	policy_location_view.SYMBOL_CD
		Number	policy_location_view.POLICY_NUM
3	Named Insured	Named Insured	policy_location_view.NAMED_INSURED_NM
4	Address	Street Address 1	policy_location_view.STREET_ADDR1_TXT
		Street Address 2	policy_location_view.STREET_ADDR2_TXT
		City	policy_location_view.CITY_NM
		State	policy_location_view.STATE_ABBR
		Zip Code	policy_location_view.ZIP_CD
		Zip Code + 4	policy_location_view.ZIP_PLUS4_CD
5	Highest landmark rating	Highest landmark rating Number	policy_location_view.HIGH_LM_PML_RATING_NUM
		Highest landmark rating code	policy_location_view.HIGH_LM_PML_RATING_GROUP_CD
6	Effective Date	Effective Date	policy_location_view.EFFECTIVE_DT
7	Expiration Date	Expiration Date	policy_location_view.EXPIRATION_DT
8	Certificate Number	Certificate Number	policy_location_view.CERT_NUM
9	Producer	Producer code	policy_location_view.PRODUCER_CD
		Producer	policy_location_view.PRODUCER_NM

FIG. 115

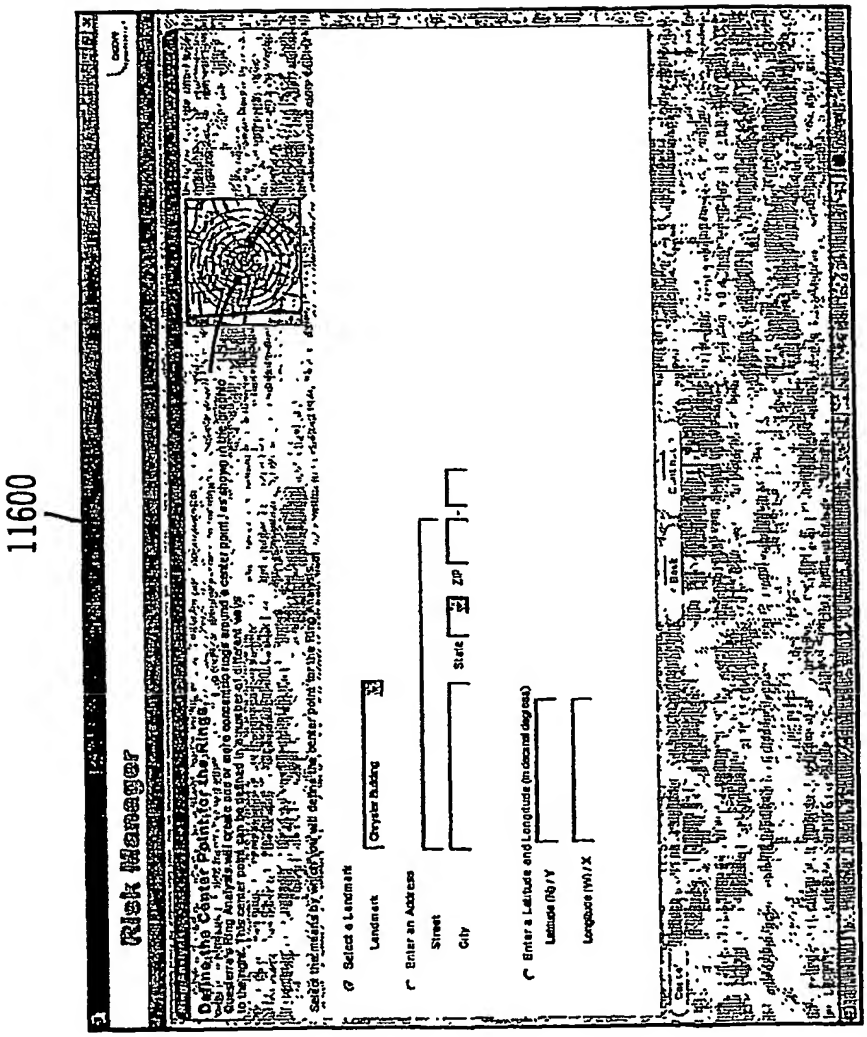

11600
Risk Manager
Define the Center Point for the Rings
Select a Landmark
Landmark
Chrysler Building
Enter an Address
Street
City
State
ZIP
Enter a Latitude and Longitude (in decimal degrees)
Latitude (N/-Y
Longitude (W/-X

FIG. 116

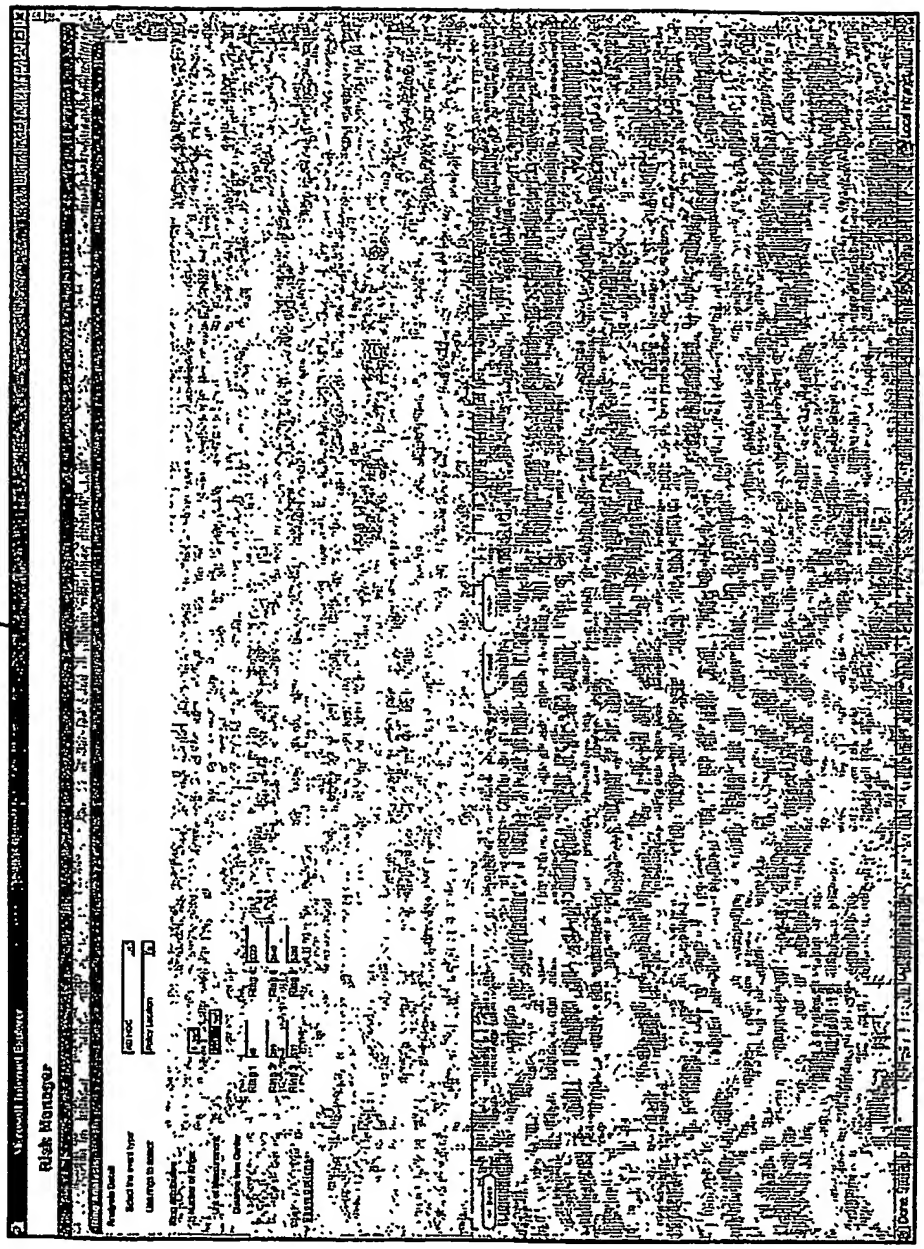


FIG. 117

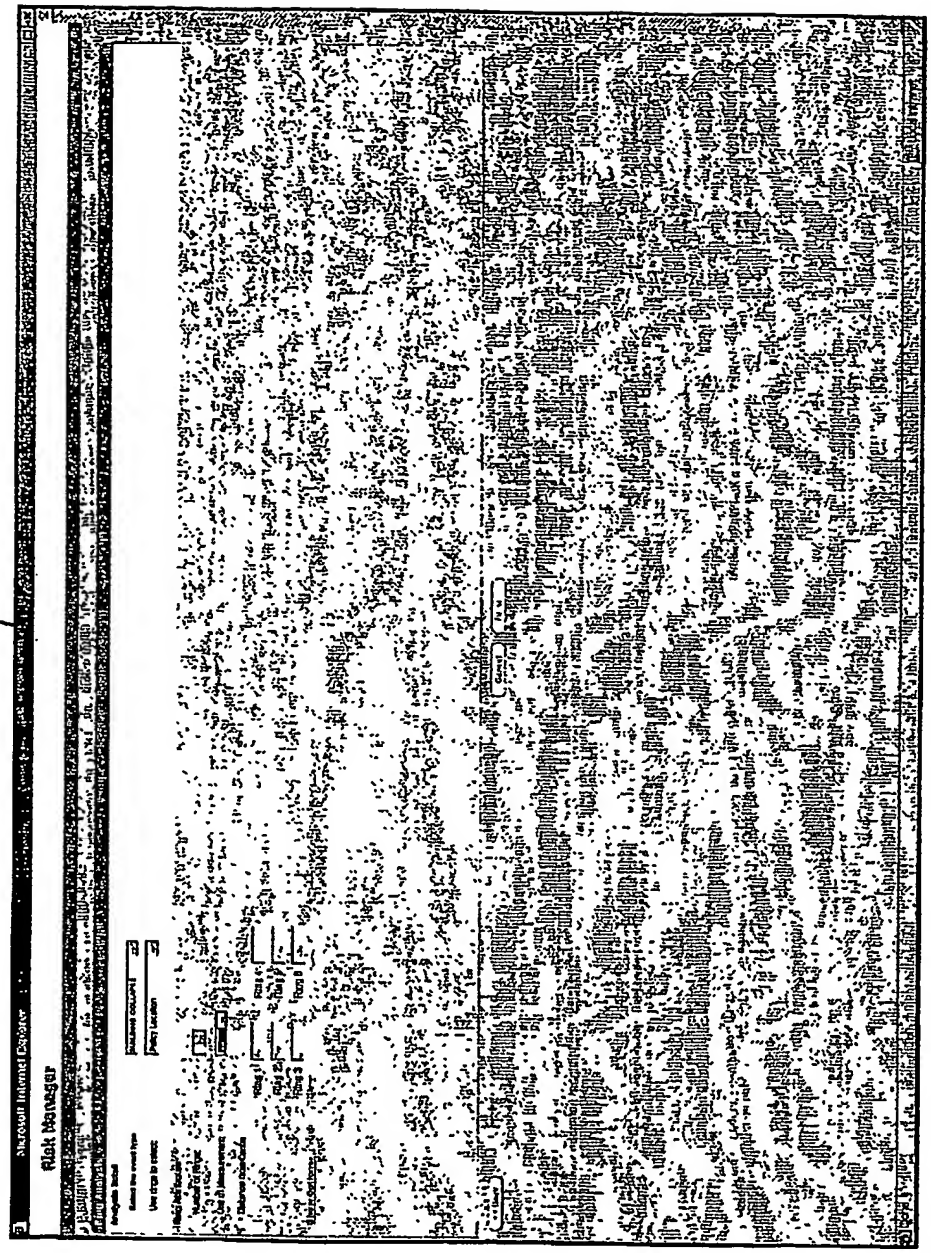


FIG. 118

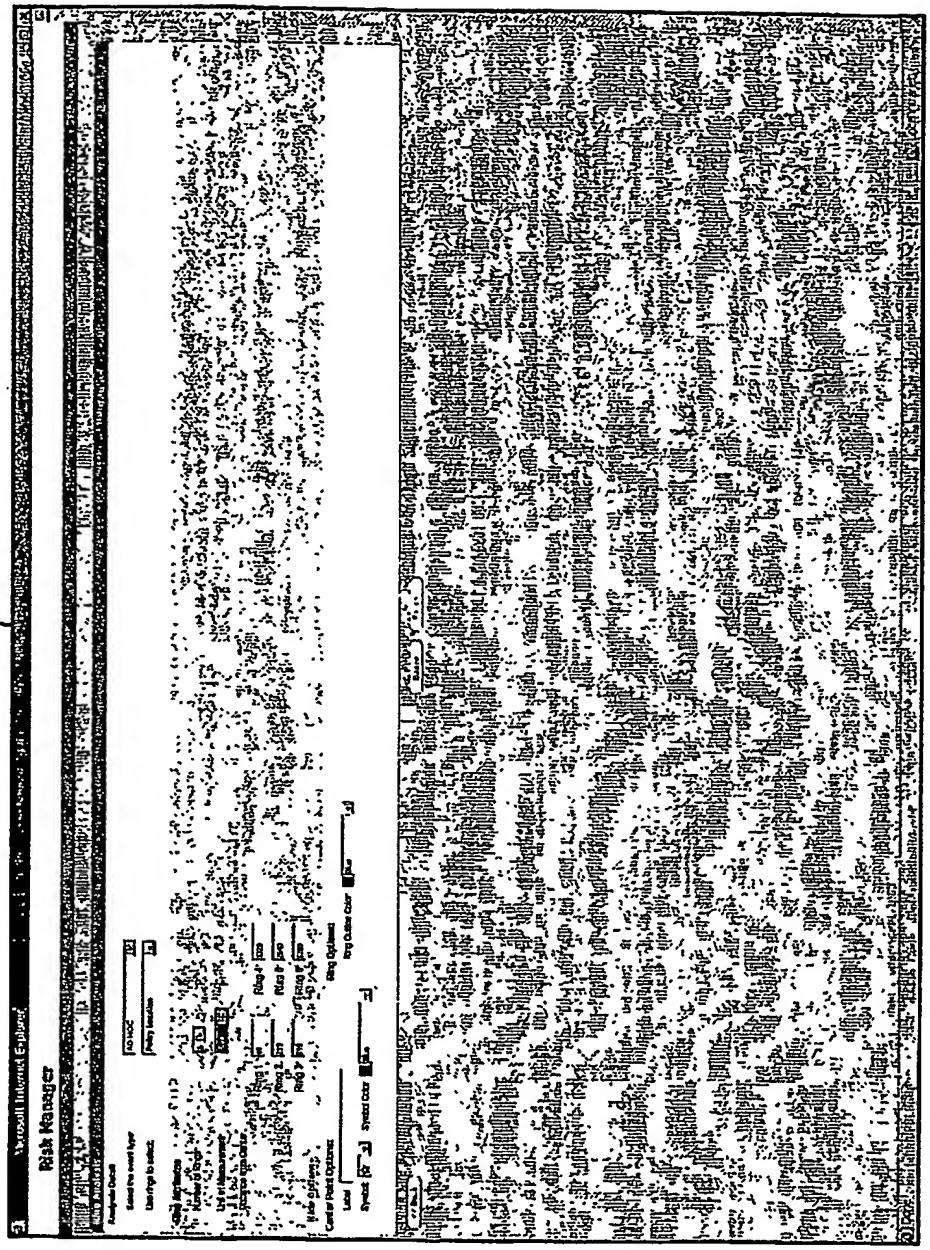


FIG. 119

12000

#	Landmark Location	Ring Dimensions	Selected policy locations	PML Data
1	landmark Layer (Current)	total loss	Copied from Current Month's Batch Data	Copied from Current Month's Batch Data
2	landmark Layer (Historical - landmark Existed)	total loss	Copied from Historical Month's Batch Data	Copied from Historical Month's Batch Data
3	landmark Layer (Current)	ad hoc	Generated with using Ring Query on Current Month's Batch policy Data	Generated with Session PML Procedures
4	landmark Layer (Historical - landmark did not Exist)	total loss	Generated with using Ring Query on Historical Month's Batch policy Data	Generated with Session PML Procedures
5	landmark Layer (Historical)	ad hoc	Generated with using Ring Query on Historical Month's Batch policy Data	Generated with Session PML Procedures
6	ad hoc Selection	total loss	Generated with using Ring Query on any Month's Batch policy Data	Generated with Session PML Procedures
7	ad hoc Selection	ad hoc	Generated with using Ring Query on any Month's Batch policy Data	Generated with Session PML Procedures

FIG. 120

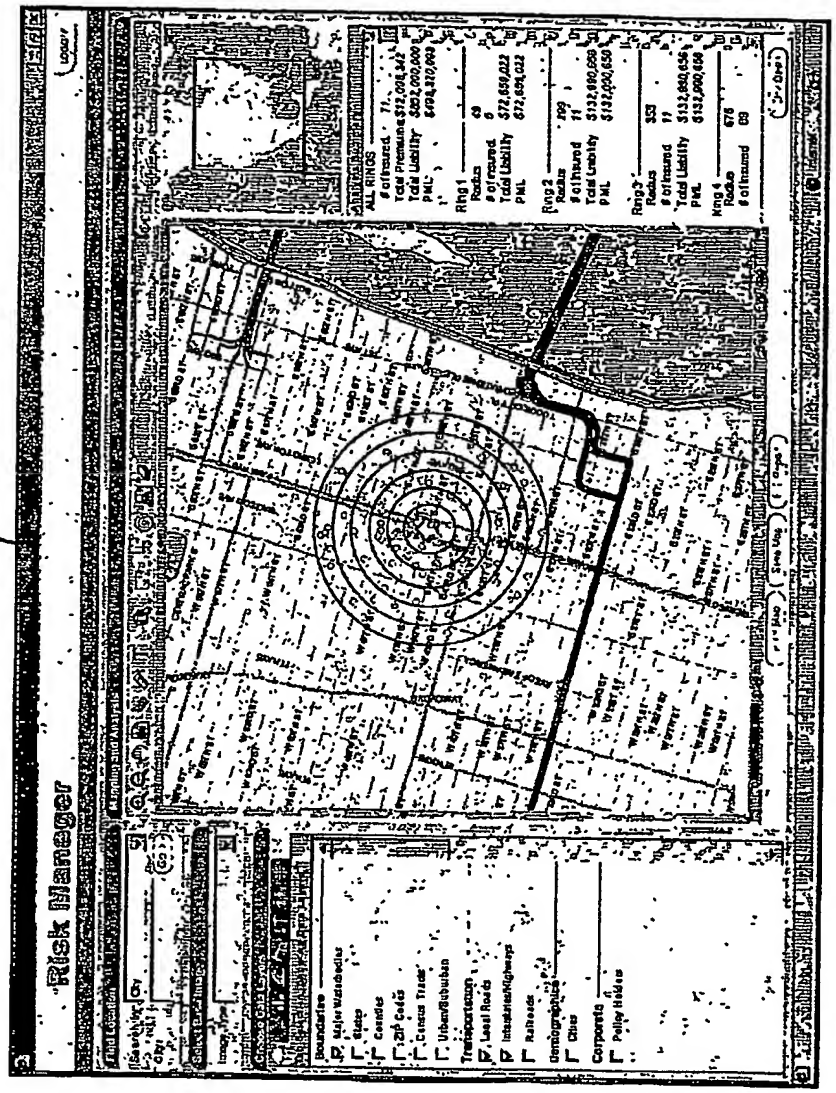


FIG. 121

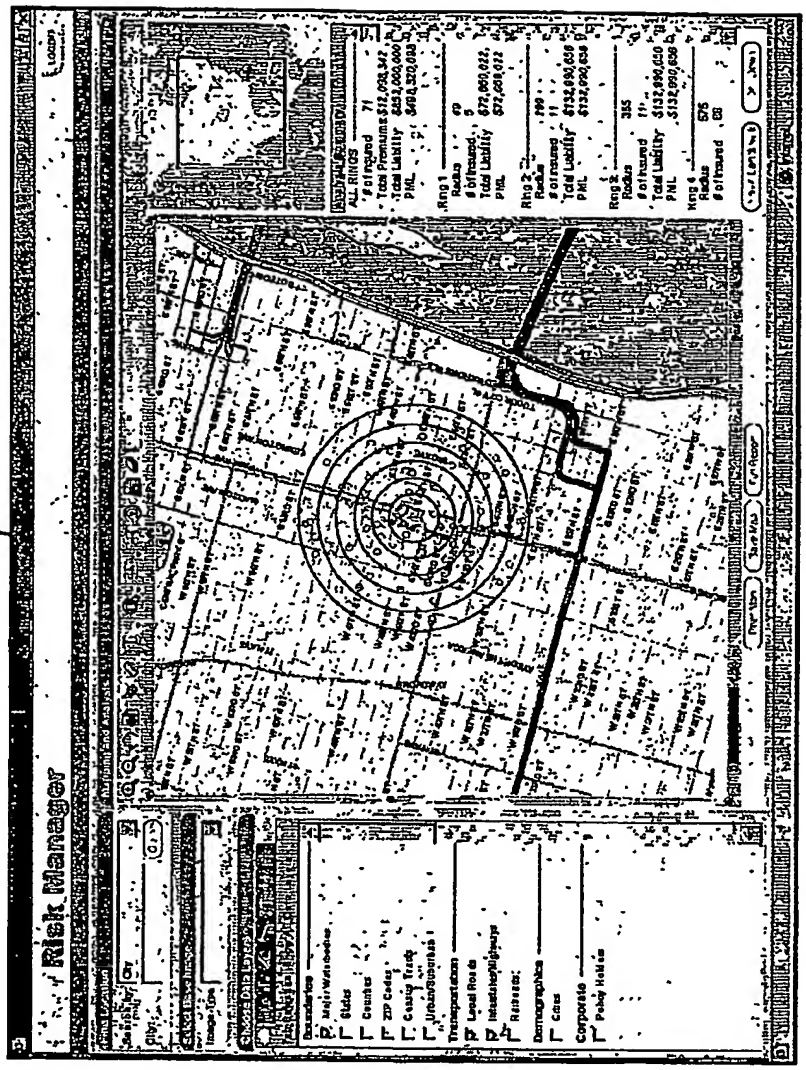


FIG. 122

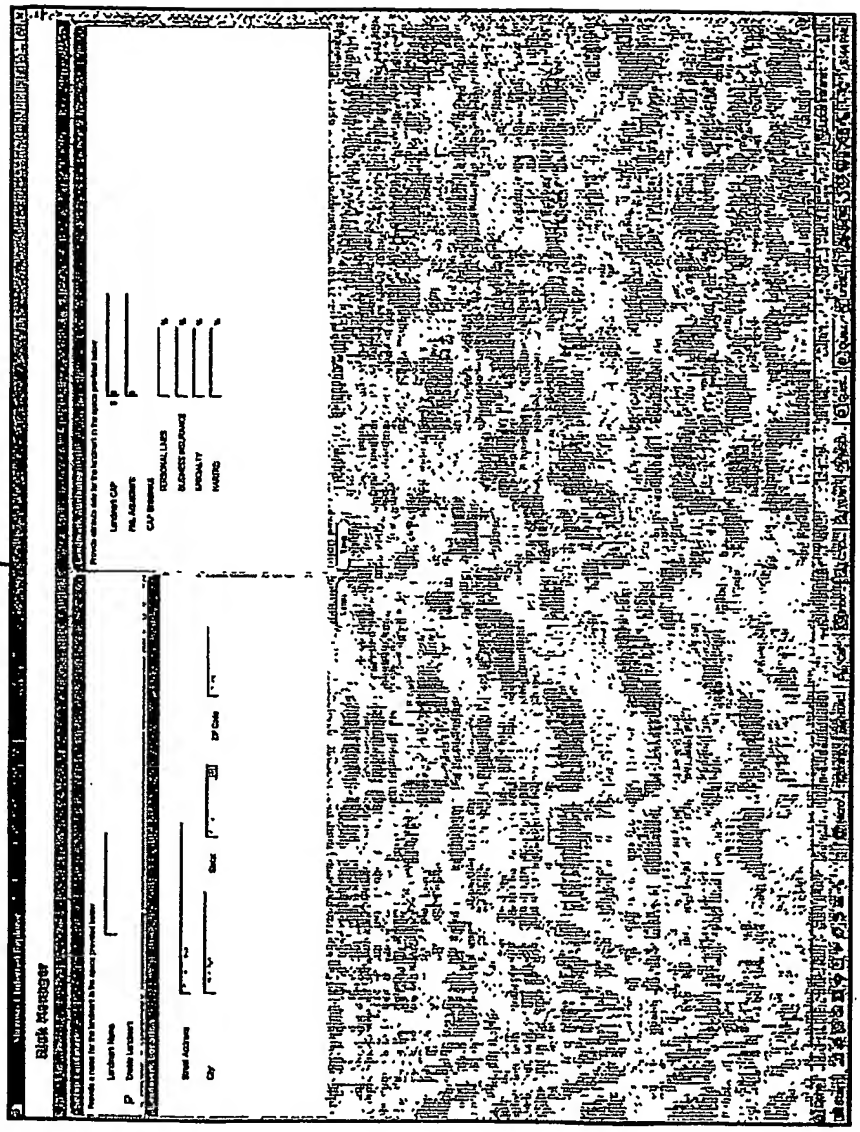


FIG. 123

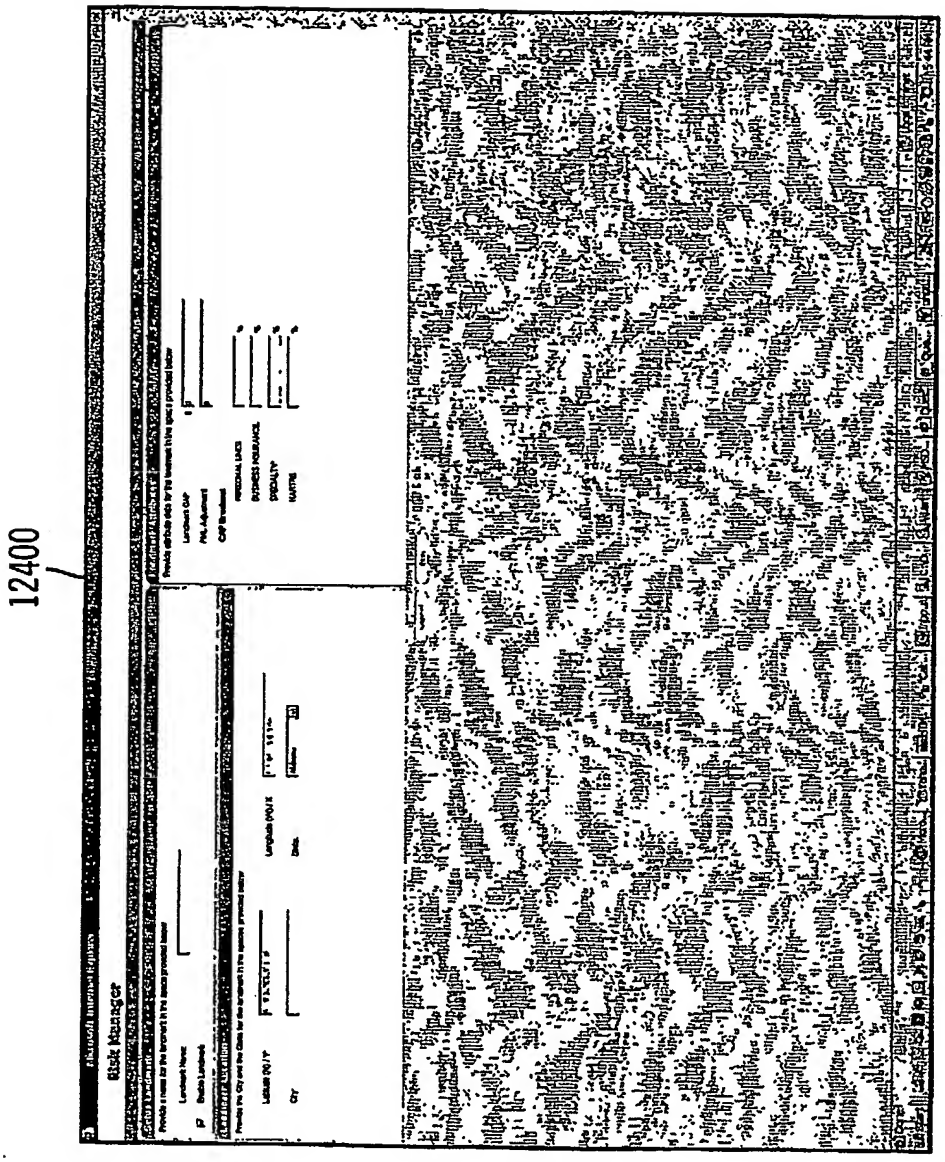


FIG. 124

#	Description	Data
1	Ring Radius	Session based ring analysis records
2	Total # of Locations	Session based ring analysis records
3	Total Liability	Session based ring analysis records
4	Total PML	Session based ring analysis records
5	Total Premium	Session based ring analysis records

12500

FIG. 125

#	Description	Data
1	Ring Number	Session based ring analysis records
2	Ring Radius	Session based ring analysis records
3	Total # of Locations	Session based ring analysis records
4	Total Liability	Session based ring analysis records
5	Total PML	Session based ring analysis records

12600

FIG. 126

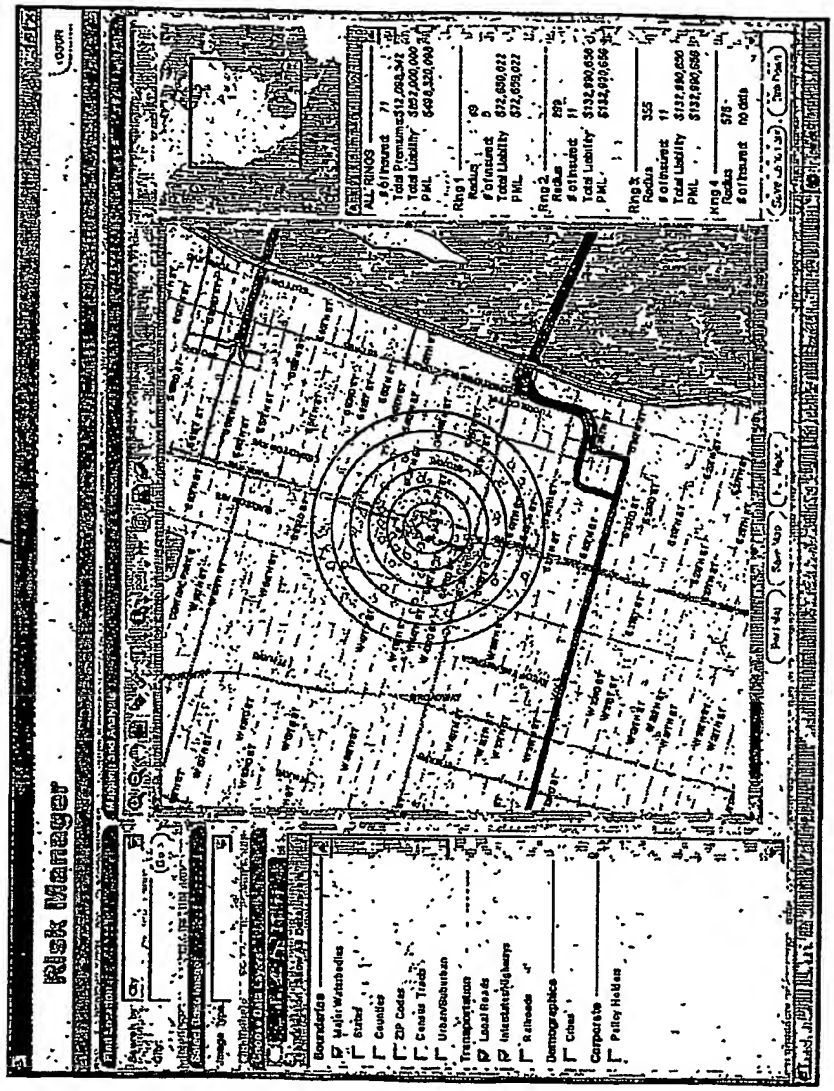
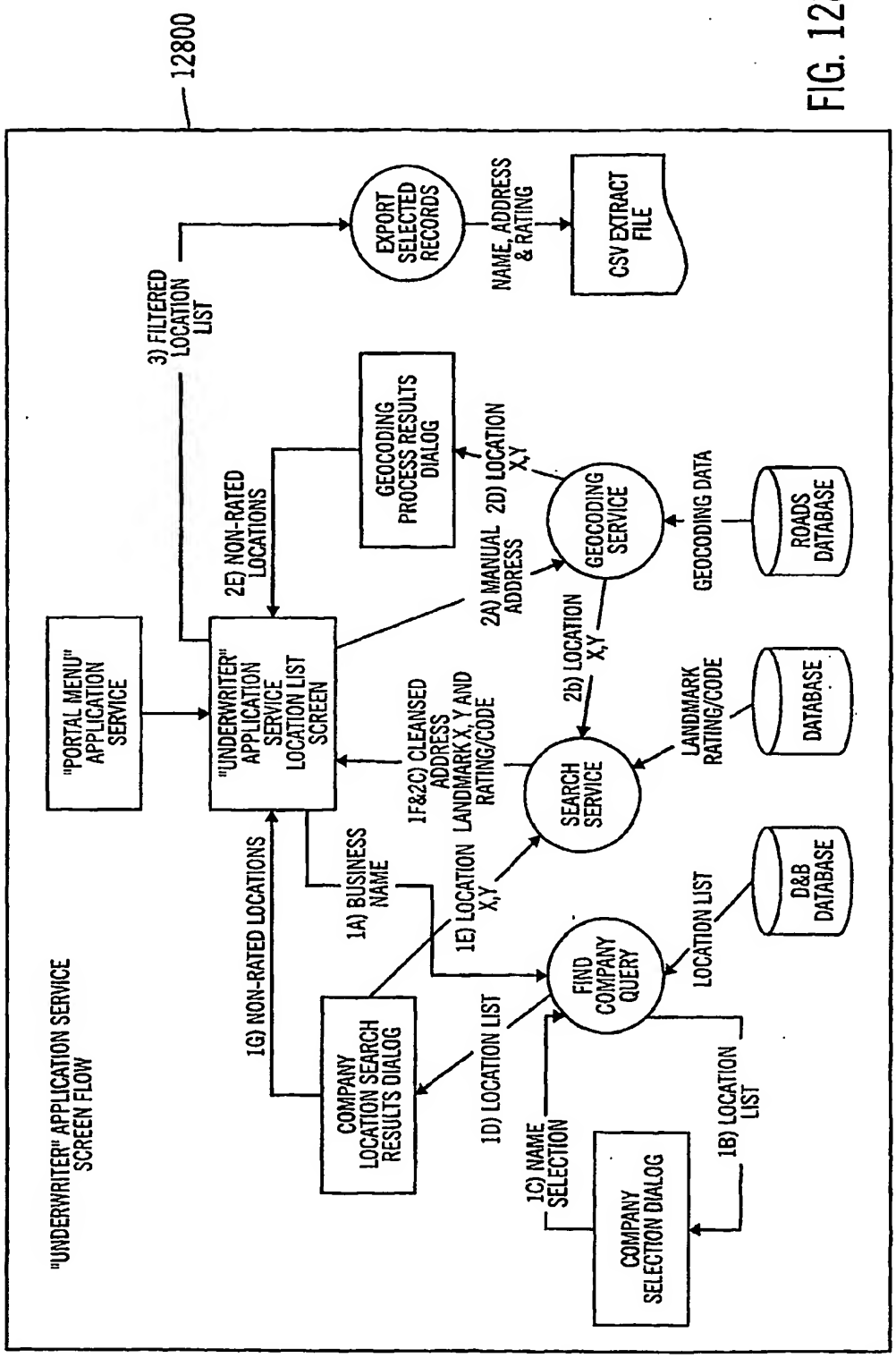


FIG. 127

FIG. 128


12800
"UNDERWRITER" APPLICATION SERVICE SCREEN FLOW
"PORTAL MENU" APPLICATION SERVICE
"UNDERWRITER" APPLICATION SERVICE LOCATION LIST SCREEN
EXPORT SELECTED RECORDS
CSV EXTRACT FILE
NAME, ADDRESS & RATING
3) FILTERED LOCATION LIST
GEOCODING PROCESS RESULTS DIALOG
2E) NON-RATED LOCATIONS
2D) LOCATION X,Y
2A) MANUAL ADDRESS
GEOCODING SERVICE
GEOCODING DATA
ROADS DATABASE
2b) LOCATION X,Y
1F&2C) CLEANSED ADDRESS LANDMARK X, Y AND RATING/CODE
SEARCH SERVICE
LANDMARK RATING/CODE
DATABASE
1A) BUSINESS NAME
1E) LOCATION X,Y
1G) NON-RATED LOCATIONS
FIND COMPANY QUERY
LOCATION LIST
D&B DATABASE
COMPANY LOCATION SEARCH RESULTS DIALOG
1D) LOCATION LIST
1C) NAME SELECTION
1B) LOCATION LIST
COMPANY SELECTION DIALOG

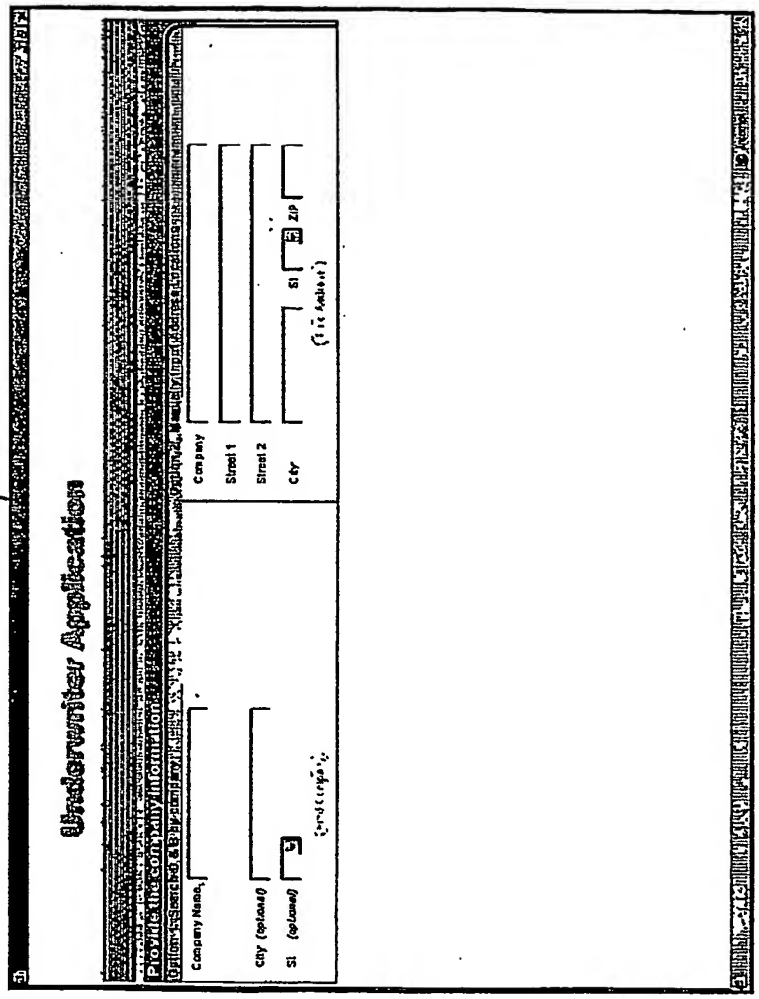

12900
Underwriter Application
Company Name,
City (optional)
St (optional)
Company
Street 1
Street 2
City
St
ZIP

FIG. 129

13000

Query	Company Name	City	State
1	Yes	No	No
2	Yes	Yes	No
3	Yes	No	Yes
4	Yes	Yes	Yes

FIG. 130

13100

Column	Description
Company Selection Radio Button	First row defaults to selected. No selectable column header or description.
Company Name	business_name column from D&B Normalized searching table
City	Cleansed_city column from D&B Normalized searching table
State	Cleansed_state column from D&B Normalized searching table
DUNS Number (Hidden)	Hidden column not displayed in list. DUNS column from D&B Normalized searching table; foreign key from same column in main D&B table.

FIG. 131

13200

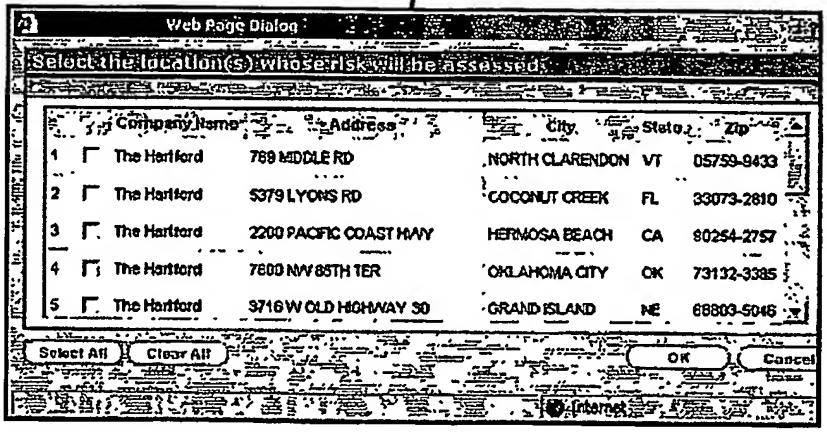


FIG. 132

13300

Location Number	Automatically generated when the list is displayed. Always show 1 through 'n' regardless of sort order.
Location Inclusion Check Box	user entered data element. Default is checked.
Company name	business_name column from D&B Normalized searching table
Address	Cleansed_address column from main D&B table
City	Cleansed_city column from main D&B table
State	Cleansed_state column from main D&B table
ZIP	Cleansed_zip column from main D&B table
Geocode Status (Hidden)	Hidden column not displayed in list. Geocode_status column from main D&B table
Geocoded Location (Hidden)	Hidden column not displayed in list. SDO_Geometry column from main D&B table

FIG. 133

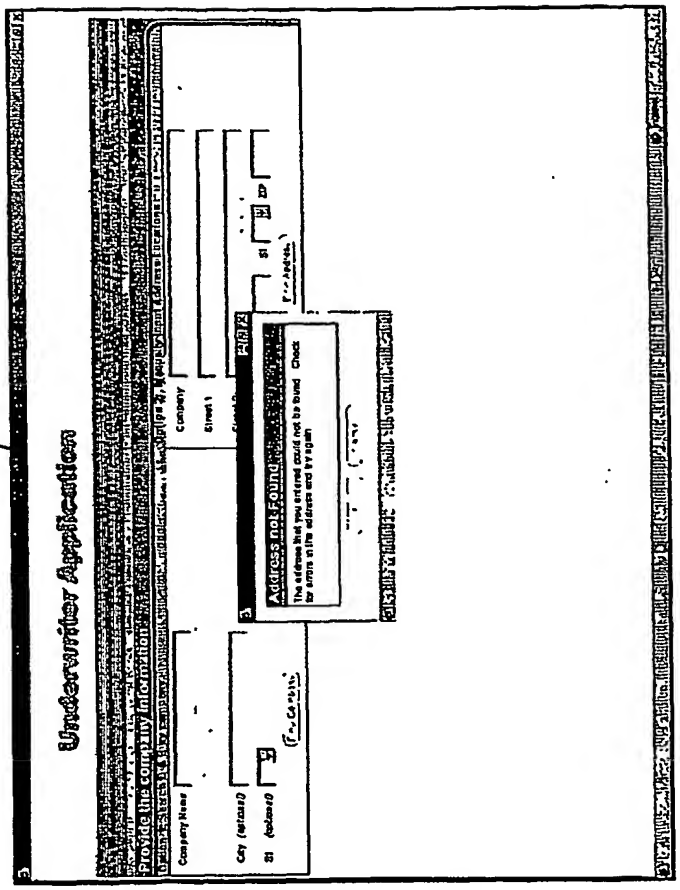

13400
Underwriter Application
Provide the company information
Company Name
Company
Street 1
City (required)
St (required)
ZIP
Address not found
The address that you entered could not be found. Check for errors in the address and try again

FIG. 134

13500

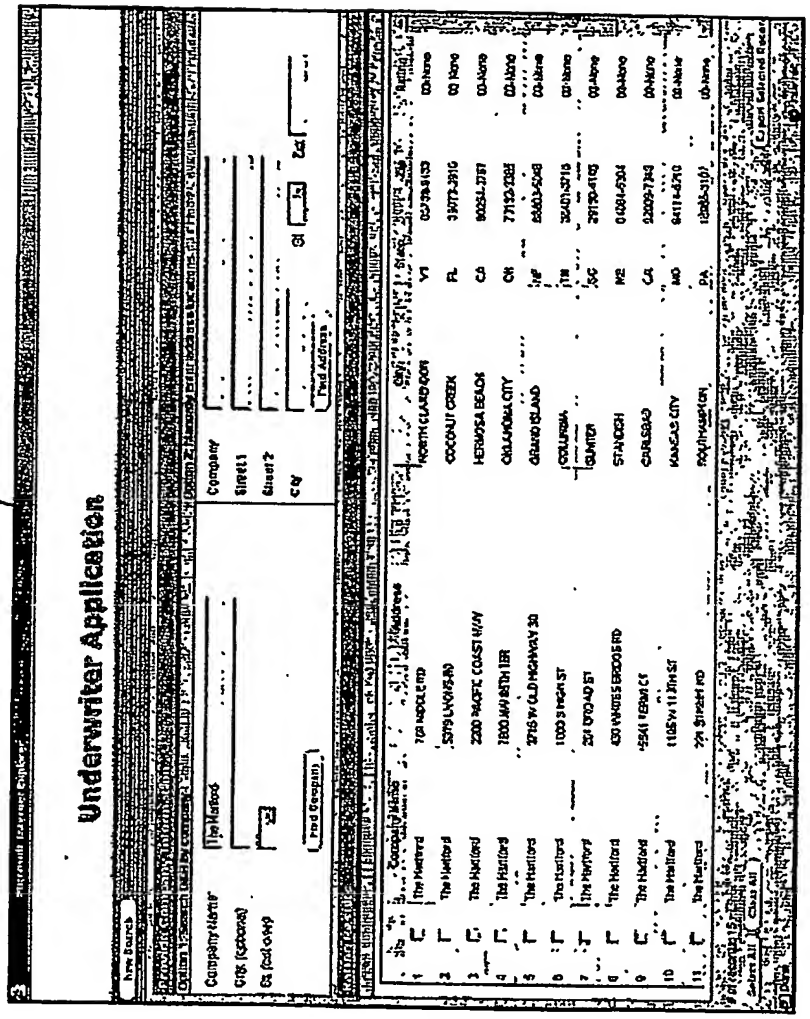


FIG. 135

13600

Location Number		Automatically generated when the list is displayed. Always show 1 through 'n' regardless of sort order.
Location Inclusion Check Box		user entered data element. Default is checked.
Company name		business_name column from D&B Normalized searching table
Address		Cleansed_address column from main D&B table
City		Cleansed_city column from main D&B table
State		Cleansed_state column from main D&B table
ZIP		Cleansed_zip column from main D&B table
rating	rating Number	Pml_rating_num column from policy_batch_landmark_rtg table, or static 0 or blank. Values 0-10 or blank.
	rating code	Pml_rating_group_cd column from the event_type_pml_rating table, or static '-None' or blank. Values '-High', '-Medium', '-Low', '-None' or blank.

FIG. 136

Column	type
Company Name	Text
Address	Text
City	Text
State	Text
ZIP	Text
rating	Text

13700

FIG. 137

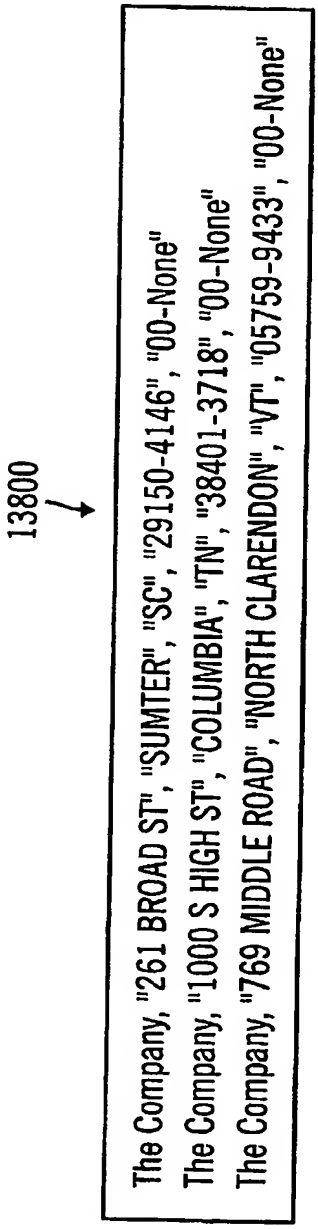

13800
The Company, "261 BROAD ST", "SUMTER", "SC", "29150-4146", "00-None"
The Company, "1000 S HIGH ST", "COLUMBIA", "TN", "38401-3718", "00-None"
The Company, "769 MIDDLE ROAD", "NORTH CLARENDON", "VT", "05759-9433", "00-None"

FIG. 138

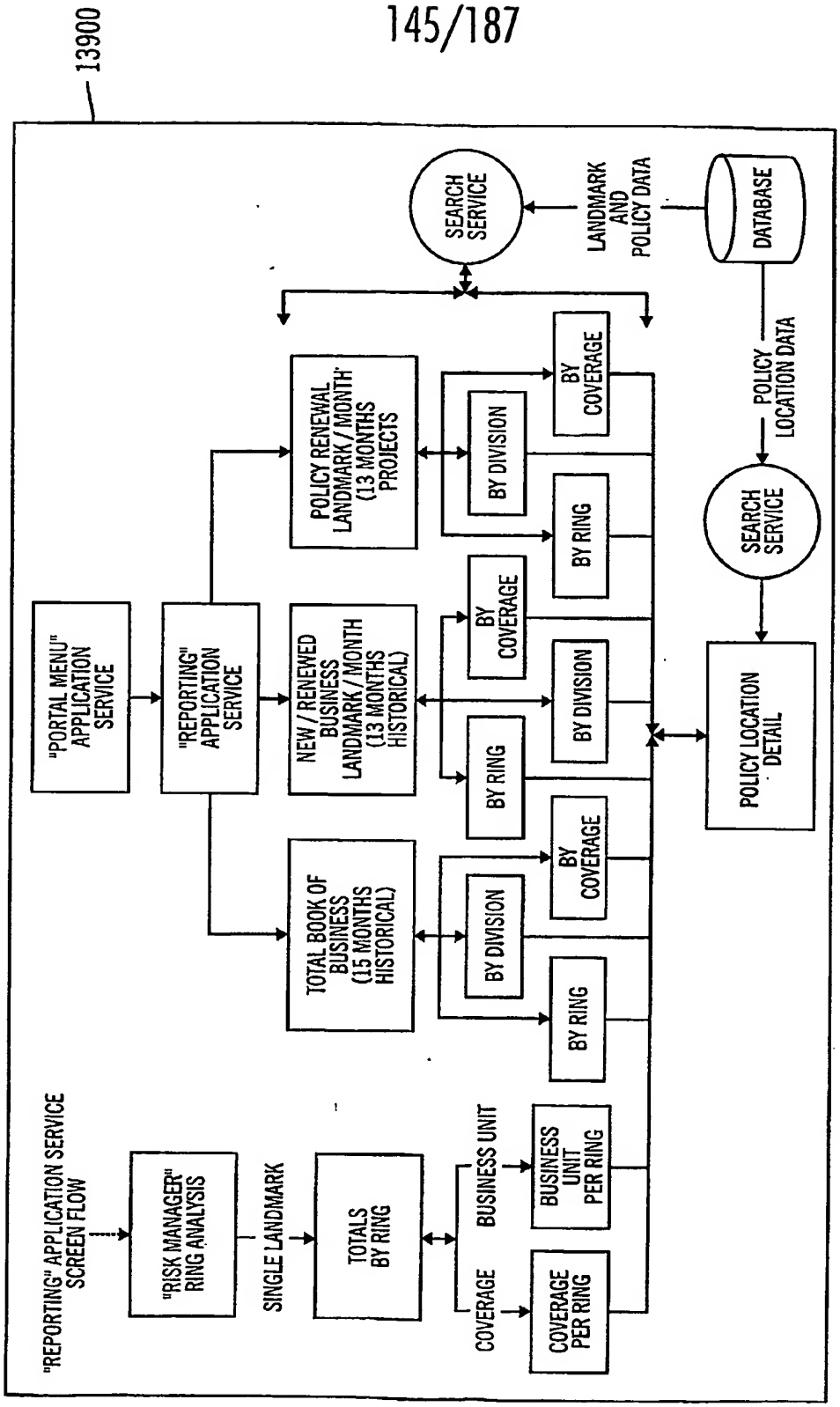

13900
SEARCH SERVICE
LANDMARK AND POLICY DATA
DATABASE
POLICY LOCATION DATA
SEARCH SERVICE
"PORTAL MENU" APPLICATION SERVICE
"REPORTING" APPLICATION SERVICE
POLICY RENEWAL LANDMARK / MONTH (13 MONTHS PROJECTS
NEW / RENEWED BUSINESS LANDMARK / MONTH (13 MONTHS HISTORICAL)
TOTAL BOOK OF BUSINESS (15 MONTHS HISTORICAL)
BY COVERAGE
BY DIVISION
BY RING
BY COVERAGE
BY DIVISION
BY RING
BY COVERAGE
BY DIVISION
BY RING
POLICY LOCATION DETAIL
"REPORTING" APPLICATION SERVICE SCREEN FLOW
"RISK MANAGER" RING ANALYSIS
SINGLE LANDMARK
TOTALS BY RING
BUSINESS UNIT
BUSINESS UNIT PER RING
COVERAGE
COVERAGE PER RING

FIG. 139

14000

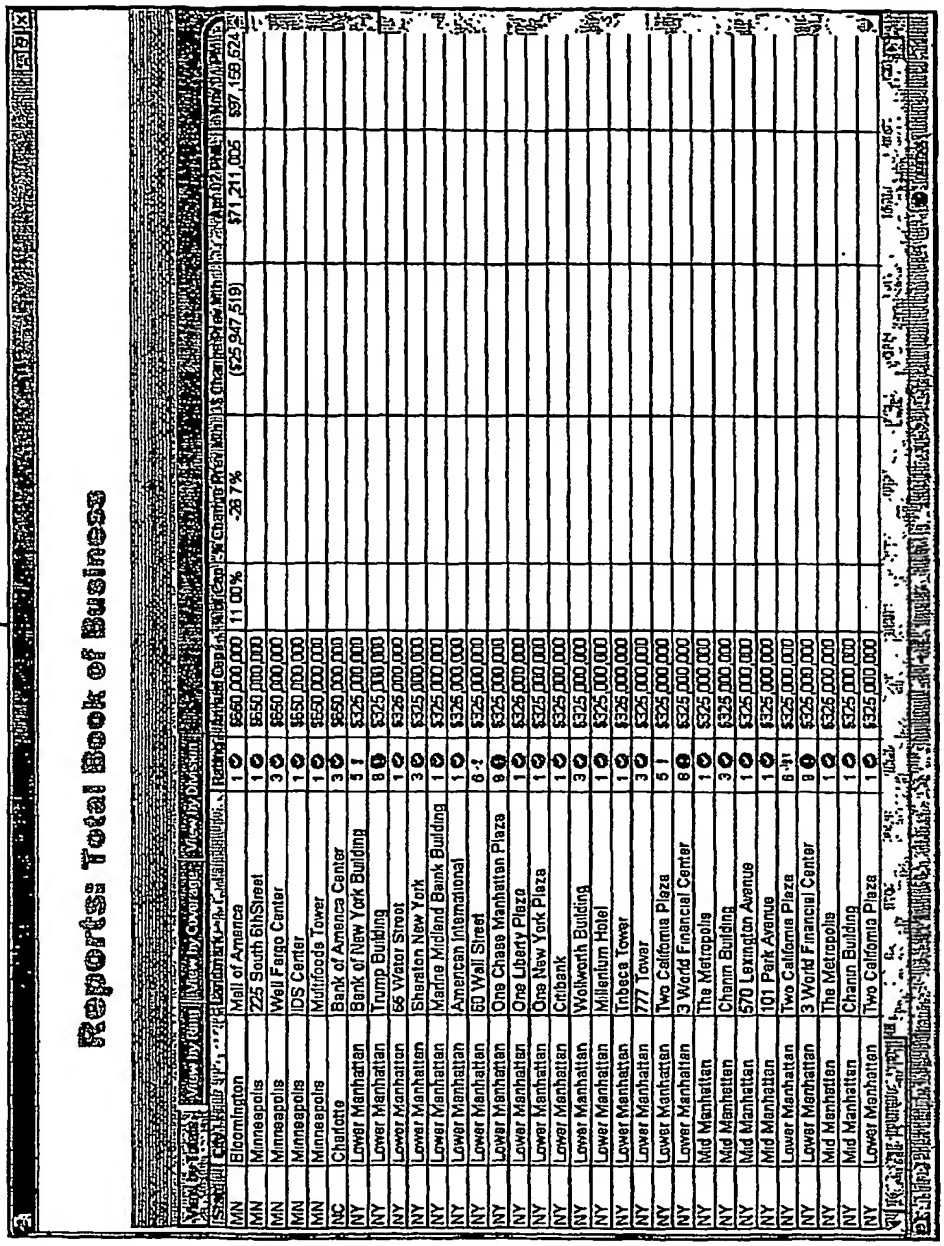
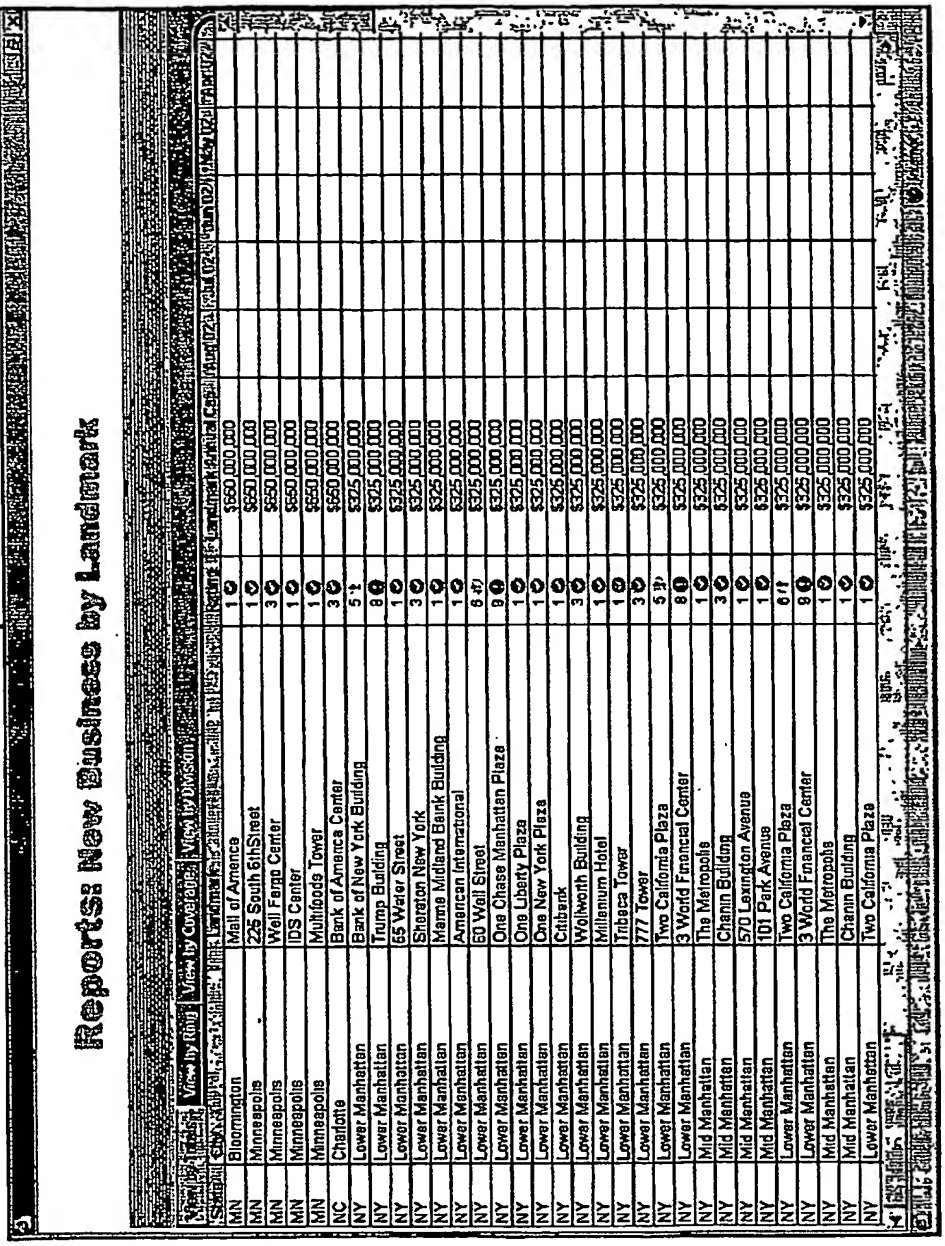


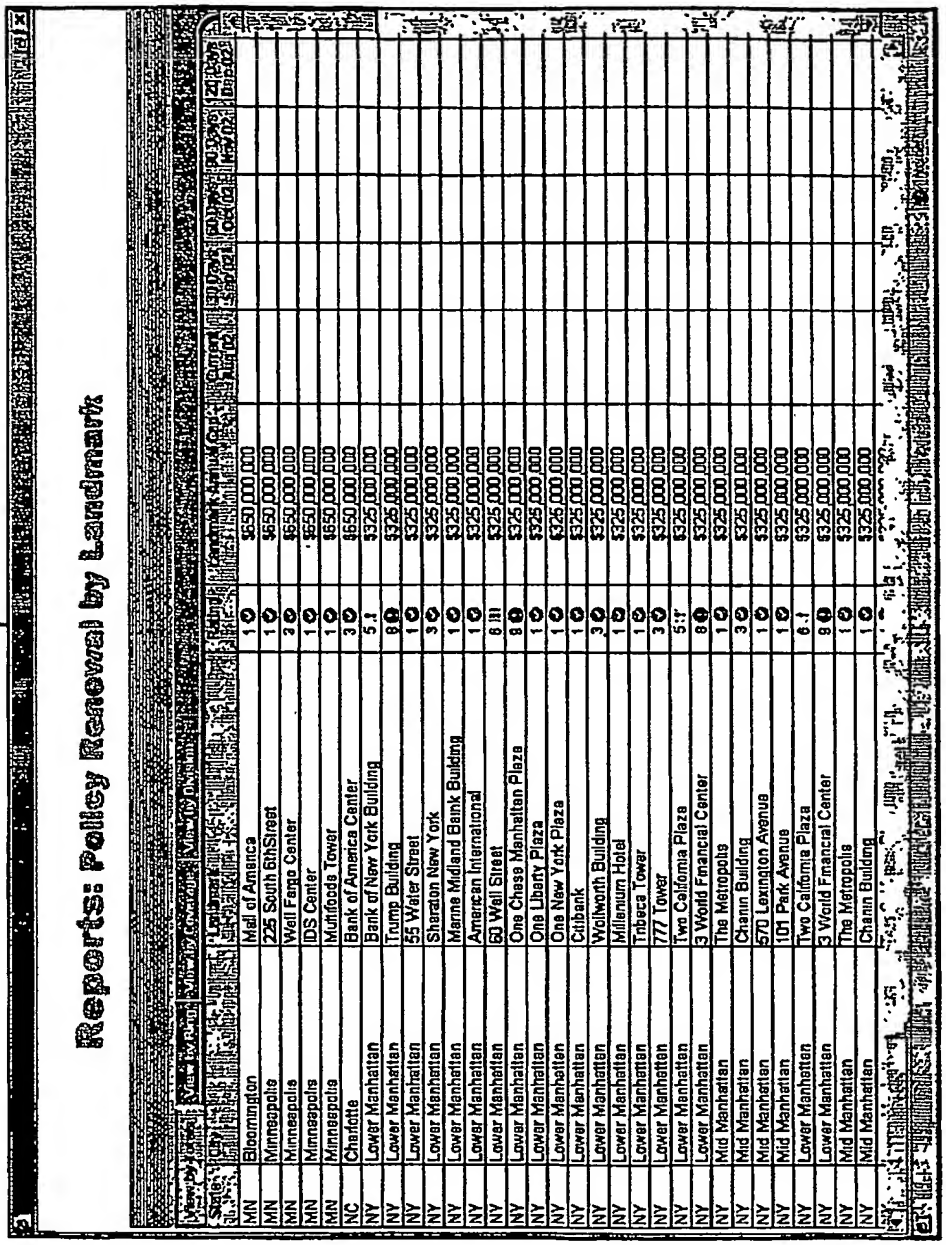
FIG. 140

10/537636

14100


Reports: New Business by Landmark
View by Total
View by Division
View by Landmark
Sample
Bloomington
Minneapolis
Minneapolis
Minneapolis
Minneapolis
Charlotte
Lower Manhattan
Lower Manhattan
Lower Manhattan

14200



| | | |

14300

# Column Name	Description
1 Unique user Name	Text: Minimum 6, maximum of 50 characters. Start with character only; any mix of alphanumeric after first character. No special or control characters. Upper or lower case.
2 First Name	Text: Maximum 100 character string with any mix of alphanumeric and special characters except for '%', '', '=', ';', and any control characters.
3 Last Name	Text: Maximum 100 character string with any mix of alphanumeric and special characters except for '%', '', '=', ';', and any control characters.
4 E-Mail Address	Text: Maximum 250 character string with any valid email address.
5 Status	Text: Either of the two strings "ACTIVE" or "INACTIVE".
6 Client Division	Text: Any valid Division string matching the DIVISION_NM column in the Division table.

FIG. 143

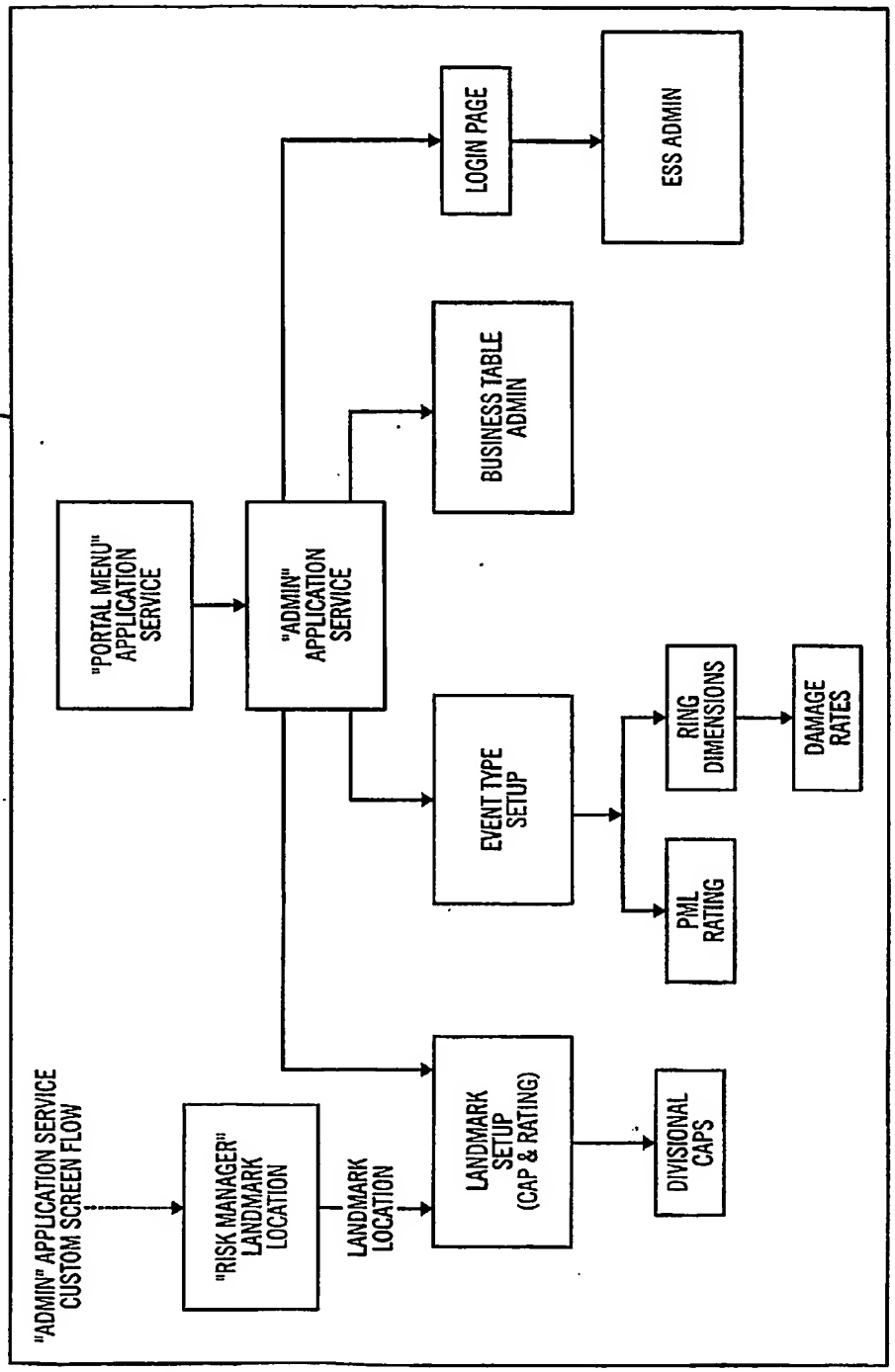

14400
"ADMIN" APPLICATION SERVICE CUSTOM SCREEN FLOW
"PORTAL MENU" APPLICATION SERVICE
"ADMIN" APPLICATION SERVICE
LOGIN PAGE
ESS ADMIN
BUSINESS TABLE ADMIN
EVENT TYPE SETUP
RING DIMENSIONS
DAMAGE RATES
PML RATING
"RISK MANAGER" LANDMARK LOCATION
LANDMARK LOCATION
LANDMARK SETUP (CAP & RATING)
DIVISIONAL CAPS

FIG. 144

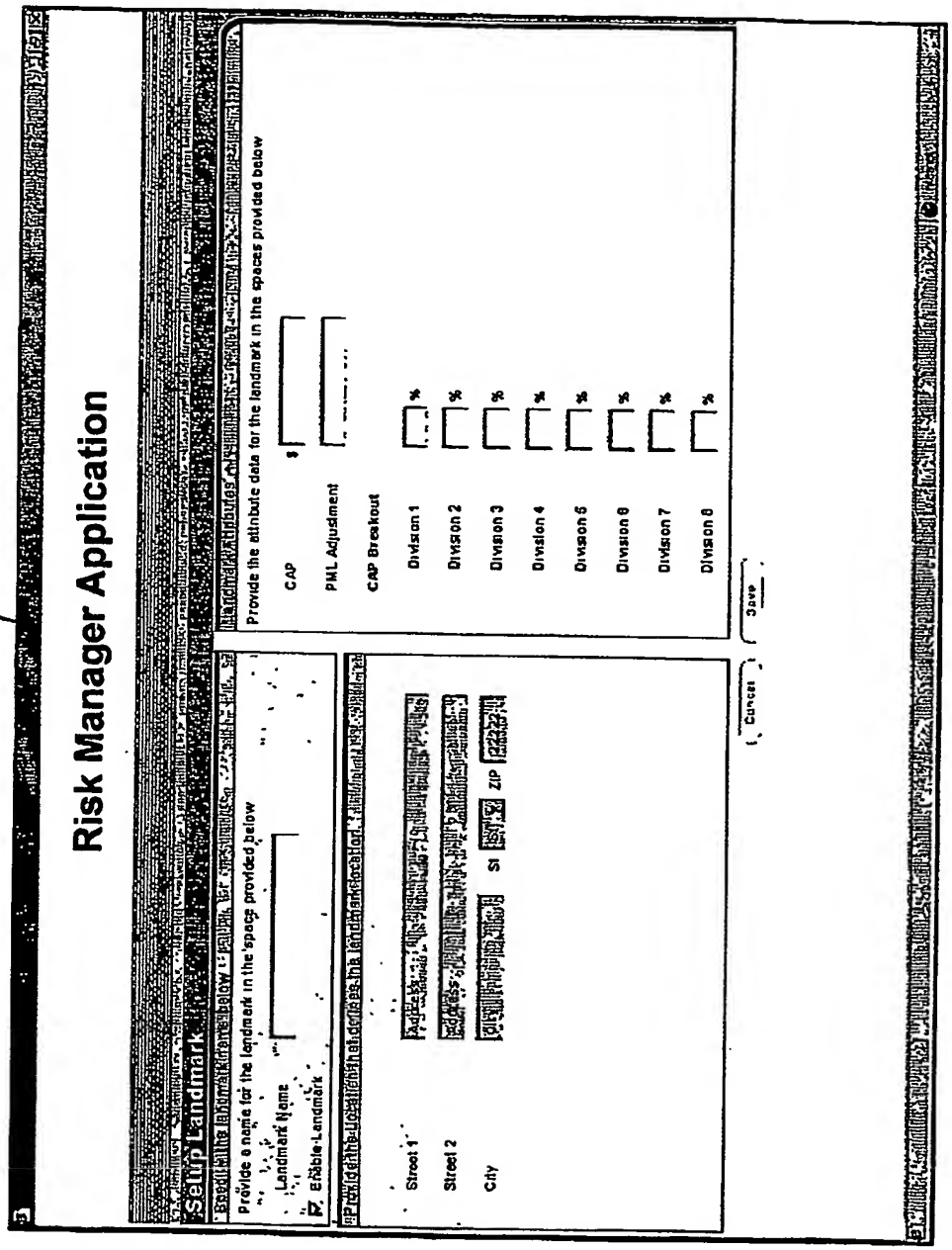

14500
Risk Manager Application
Provide the attribute data for the landmark in the spaces provided below
CAP
PML Adjustment
CAP Breakout
Division 1
Division 2
Division 3
Division 4
Division 5
Division 6
Division 7
Division 8
Cancel
Save

FIG. 145

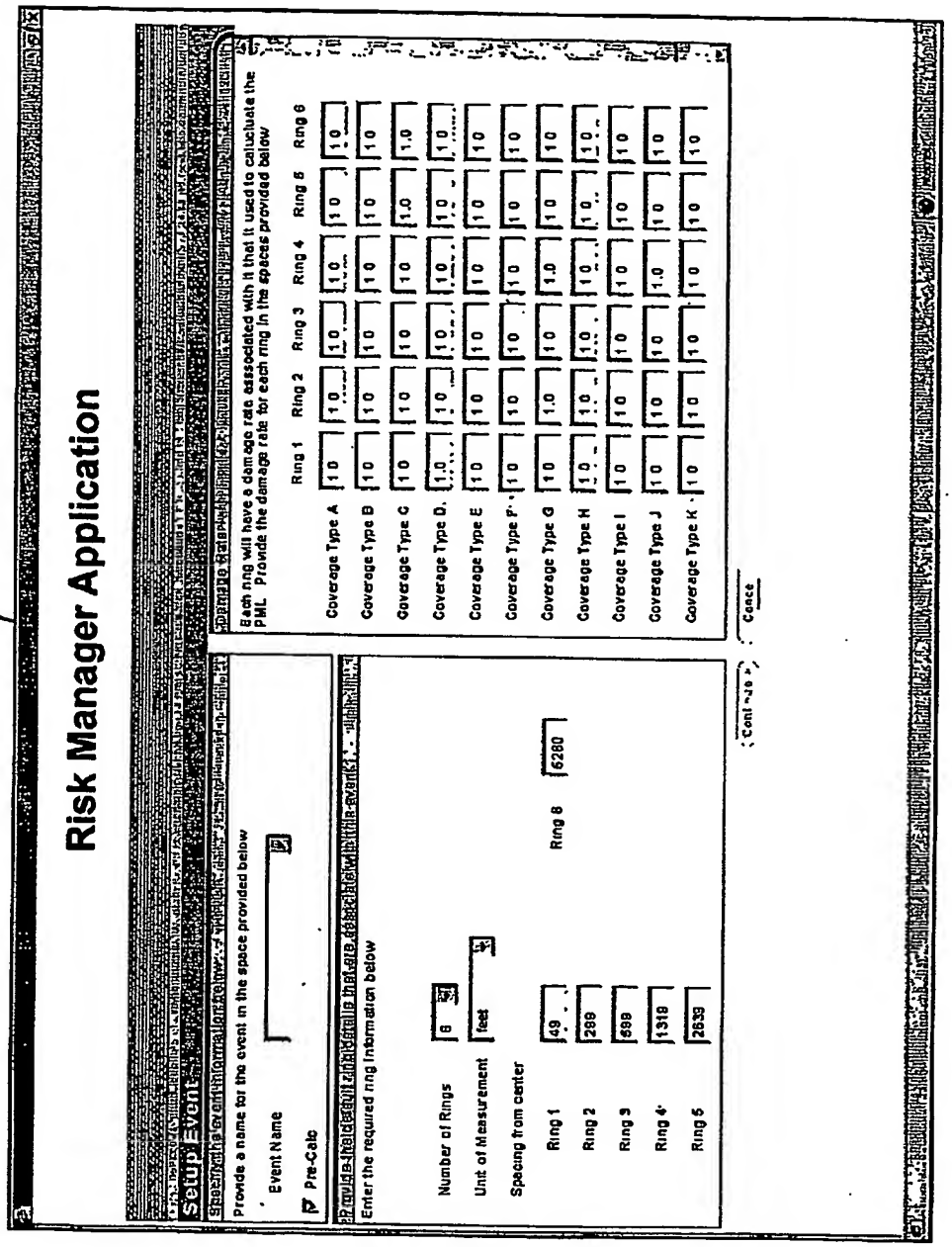

14600
Risk Manager Application
Setup Event
Provide a name for the event in the space provided below
Event Name
Pre-Calc
Enter the required ring information below
Number of Rings
Unit of Measurement
feet
Spacing from center
Ring 1
Ring 2
Ring 3
Ring 4
Ring 5
Ring 6
Ring 7
Ring 8
49
289
589
1318
2839
6280
Each ring will have a damage rate associated with it that it used to calculate the PML. Provide the damage rate for each ring in the spaces provided below
Coverage Type A
Coverage Type B
Coverage Type C
Coverage Type D
Coverage Type E
Coverage Type F
Coverage Type G
Coverage Type H
Coverage Type I
Coverage Type J
Coverage Type K
Cancel

FIG. 146

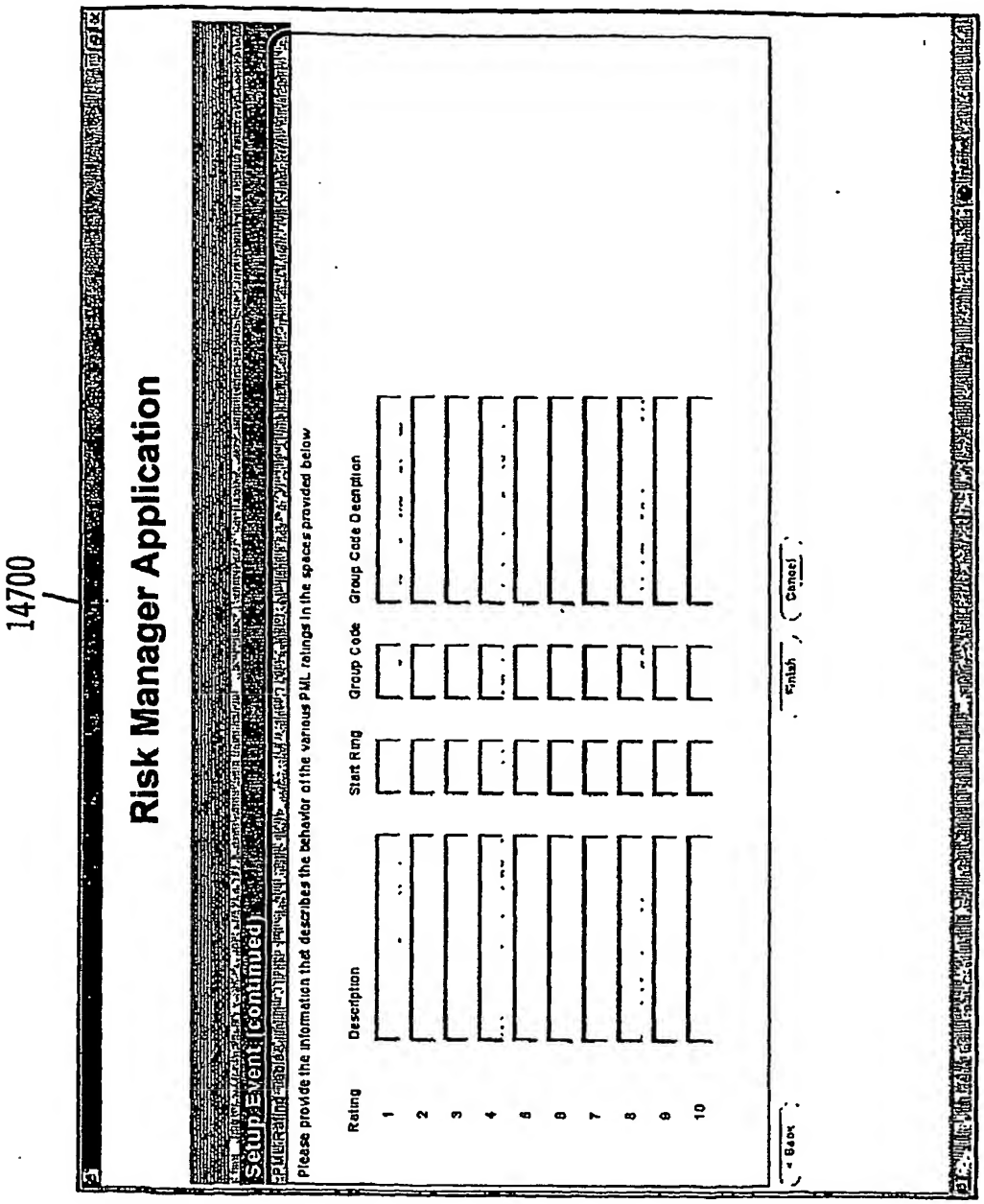

14700
Risk Manager Application
Setup Event (continued)
Please provide the information that describes the behavior of the various PML ratings in the spaces provided below
Rating
Description
Start Ring
Group Code
Group Code Description
1
2
3
4
5
6
7
8
9
10
< Back
Finish
Cancel

FIG. 147

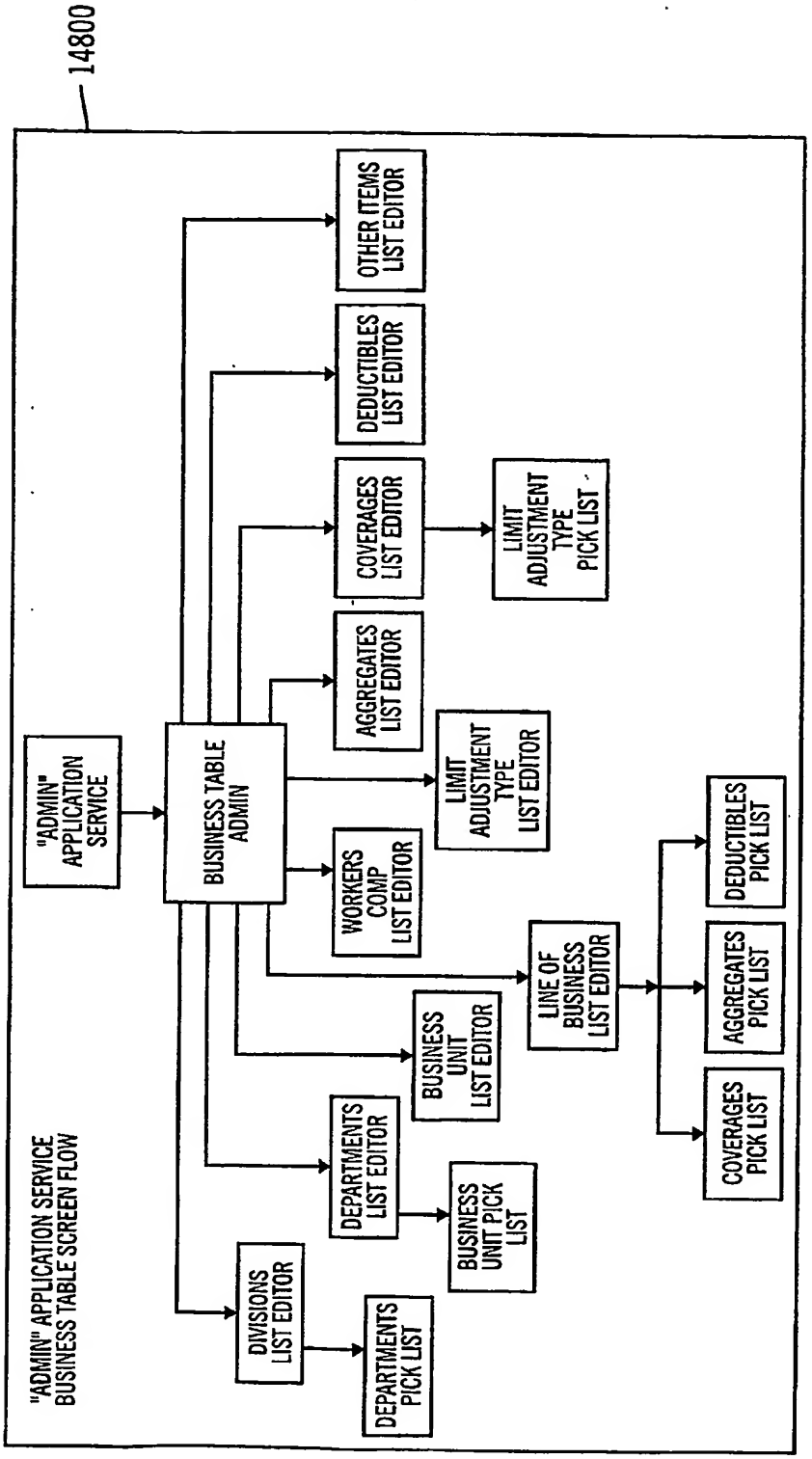

14800
"ADMIN" APPLICATION SERVICE
BUSINESS TABLE ADMIN
OTHER ITEMS LIST EDITOR
DEDUCTIBLES LIST EDITOR
COVERAGES LIST EDITOR
LIMIT ADJUSTMENT TYPE PICK LIST
AGGREGATES LIST EDITOR
LIMIT ADJUSTMENT TYPE LIST EDITOR
WORKERS COMP LIST EDITOR
LINE OF BUSINESS LIST EDITOR
DEDUCTIBLES PICK LIST
AGGREGATES PICK LIST
COVERAGES PICK LIST
BUSINESS UNIT LIST EDITOR
DEPARTMENTS LIST EDITOR
BUSINESS UNIT PICK LIST
DIVISIONS LIST EDITOR
DEPARTMENTS PICK LIST
"ADMIN" APPLICATION SERVICE
BUSINESS TABLE SCREEN FLOW

FIG. 148

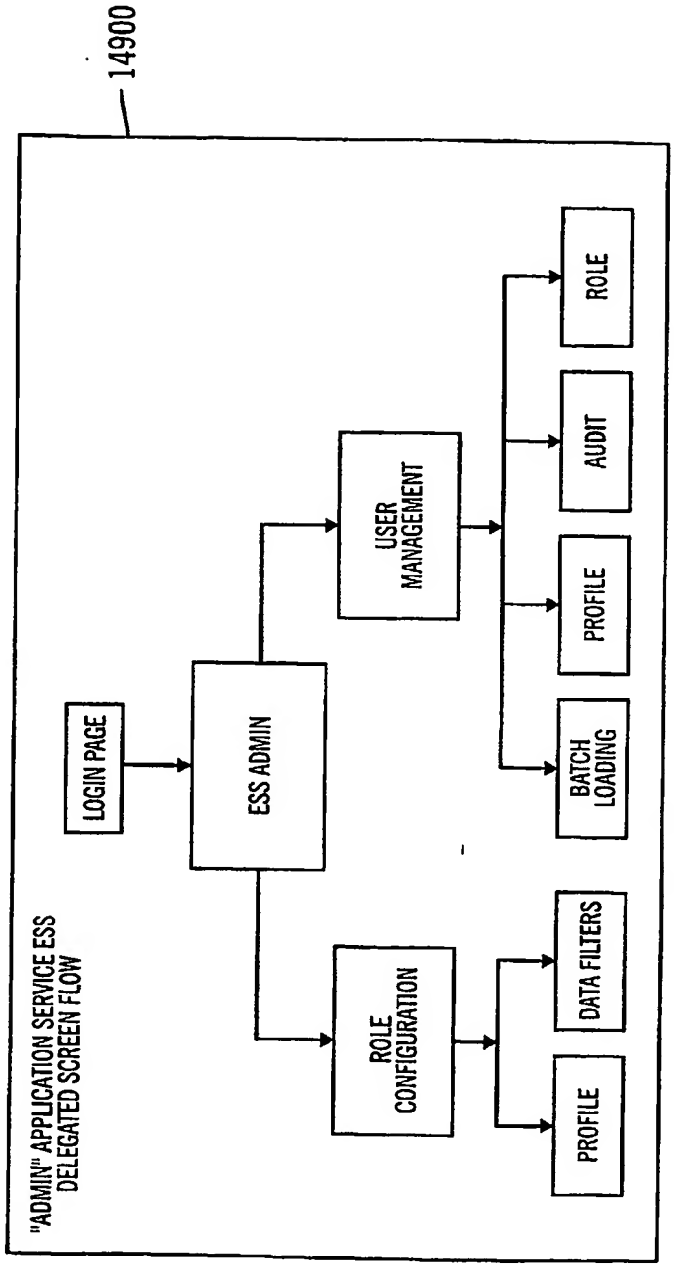

14900
"ADMIN" APPLICATION SERVICE ESS
DELEGATED SCREEN FLOW
LOGIN PAGE
ESS ADMIN
USER MANAGEMENT
ROLE
AUDIT
PROFILE
BATCH LOADING
ROLE CONFIGURATION
DATA FILTERS
PROFILE

FIG. 149

Corporate	Management	Underwriter	Division Access to Policy Location Detail
1	2	4	Personal Lines
		4	Business Insurance
		4	Specialty
	3	4	Client-specific

15000

FIG. 150

Column Name	Column Size
DUNS	(CHAR(9))
business_name	(CHAR(120))
Cleansed_city	(CHAR(50))
Cleansed_state	(CHAR(10))

15100

FIG. 151

15200

View	Table Joins	Search Keys	Selected Fields	application services Using View
landmark_location_view	Policy_batch_landmark_rtg landmark Pml_event_type_rtg		landmark.*	Risk Manager
policy_location_view	policy_location policy			Risk Manager

FIG. 152

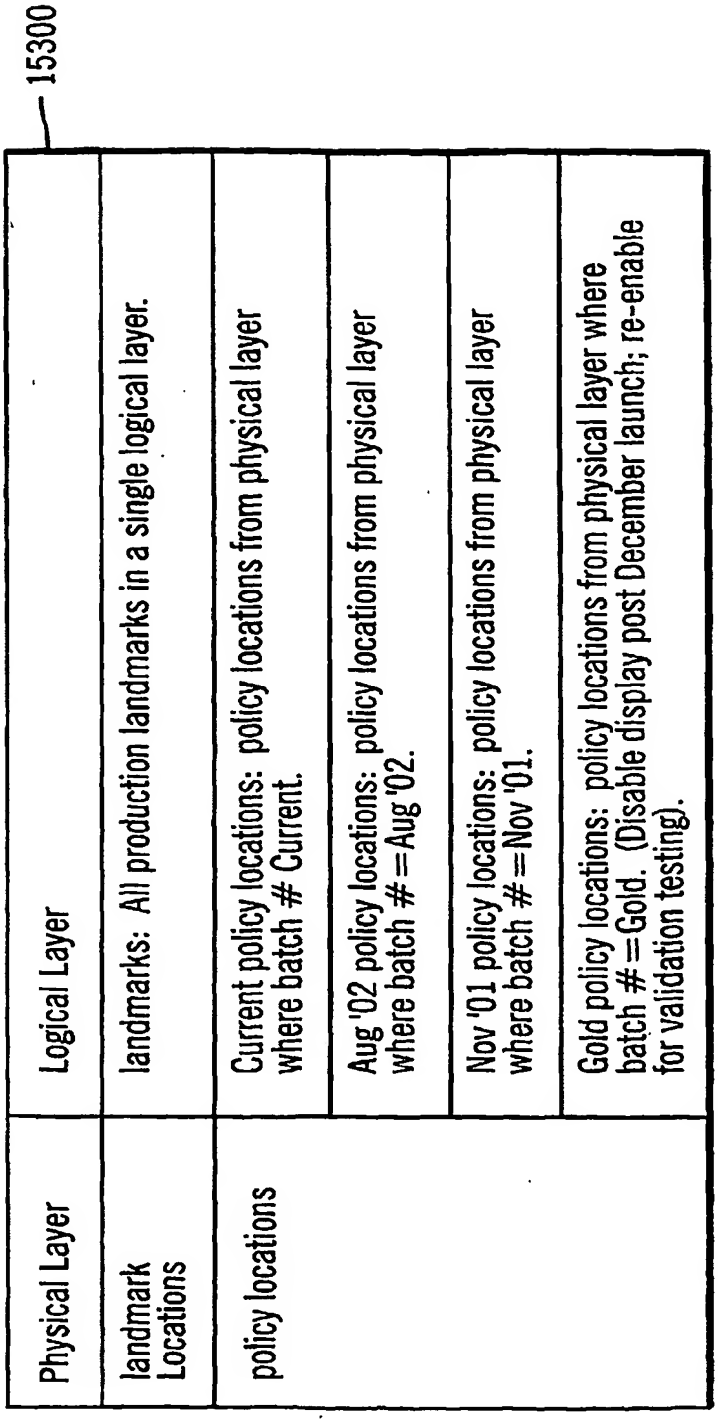

15300
Physical Layer
Logical Layer
landmark Locations
landmarks: All production landmarks in a single logical layer.
policy locations
Current policy locations: policy locations from physical layer where batch # Current.
Aug '02 policy locations: policy locations from physical layer where batch # = Aug '02.
Nov '01 policy locations: policy locations from physical layer where batch # = Nov '01.
Gold policy locations: policy locations from physical layer where batch # = Gold. (Disable display post December launch; re-enable for validation testing).

FIG. 153

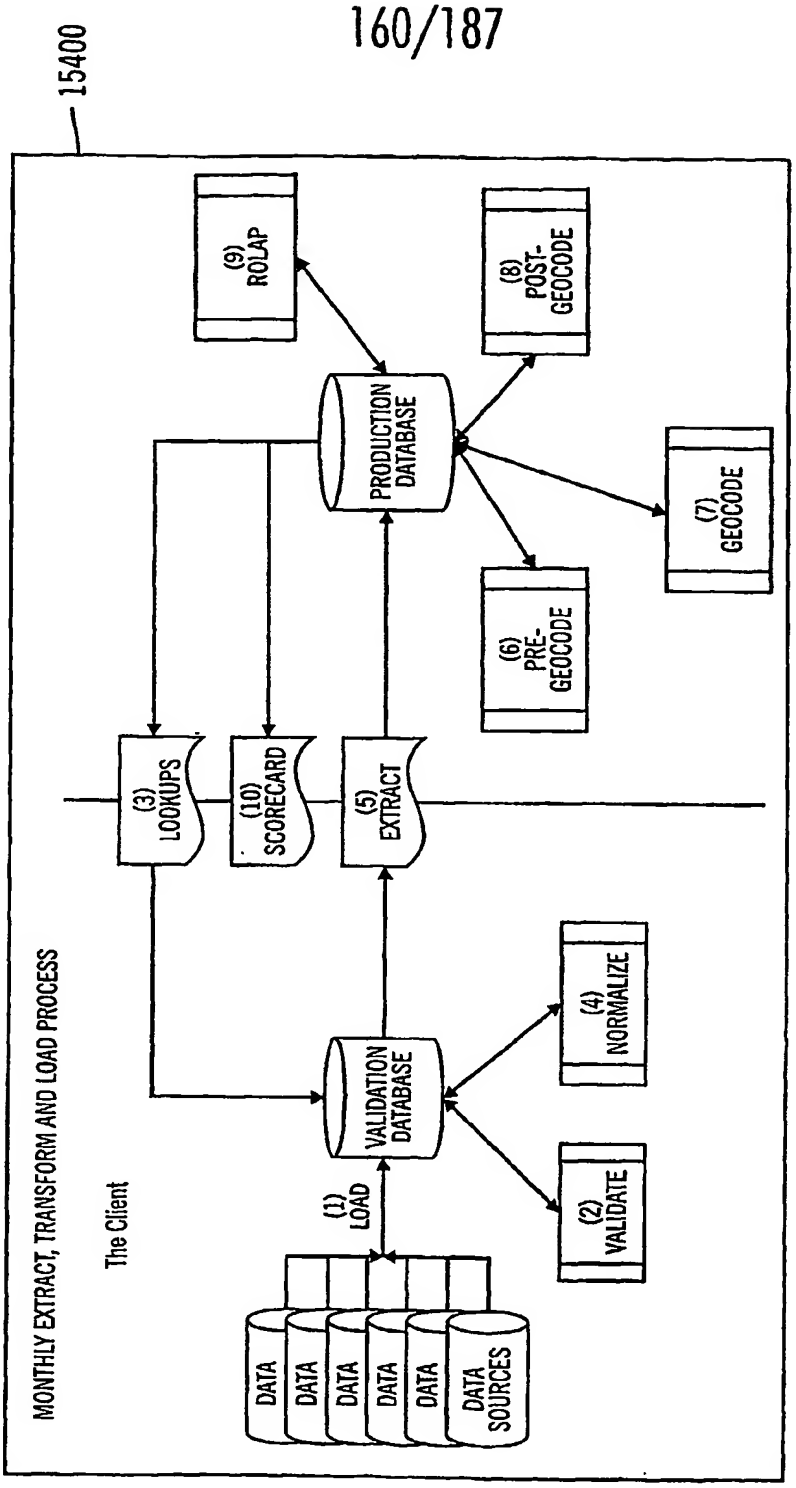

15400
MONTHLY EXTRACT, TRANSFORM AND LOAD PROCESS
The Client
DATA
DATA
DATA
DATA
DATA
DATA SOURCES
(1) LOAD
VALIDATION DATABASE
(2) VALIDATE
(4) NORMALIZE
(3) LOOKUPS
(10) SCORECARD
(5) EXTRACT
PRODUCTION DATABASE
(9) ROLAP
(8) POST-GEOCODE
(7) GEOCODE
(6) PRE-GEOCODE

FIG. 154

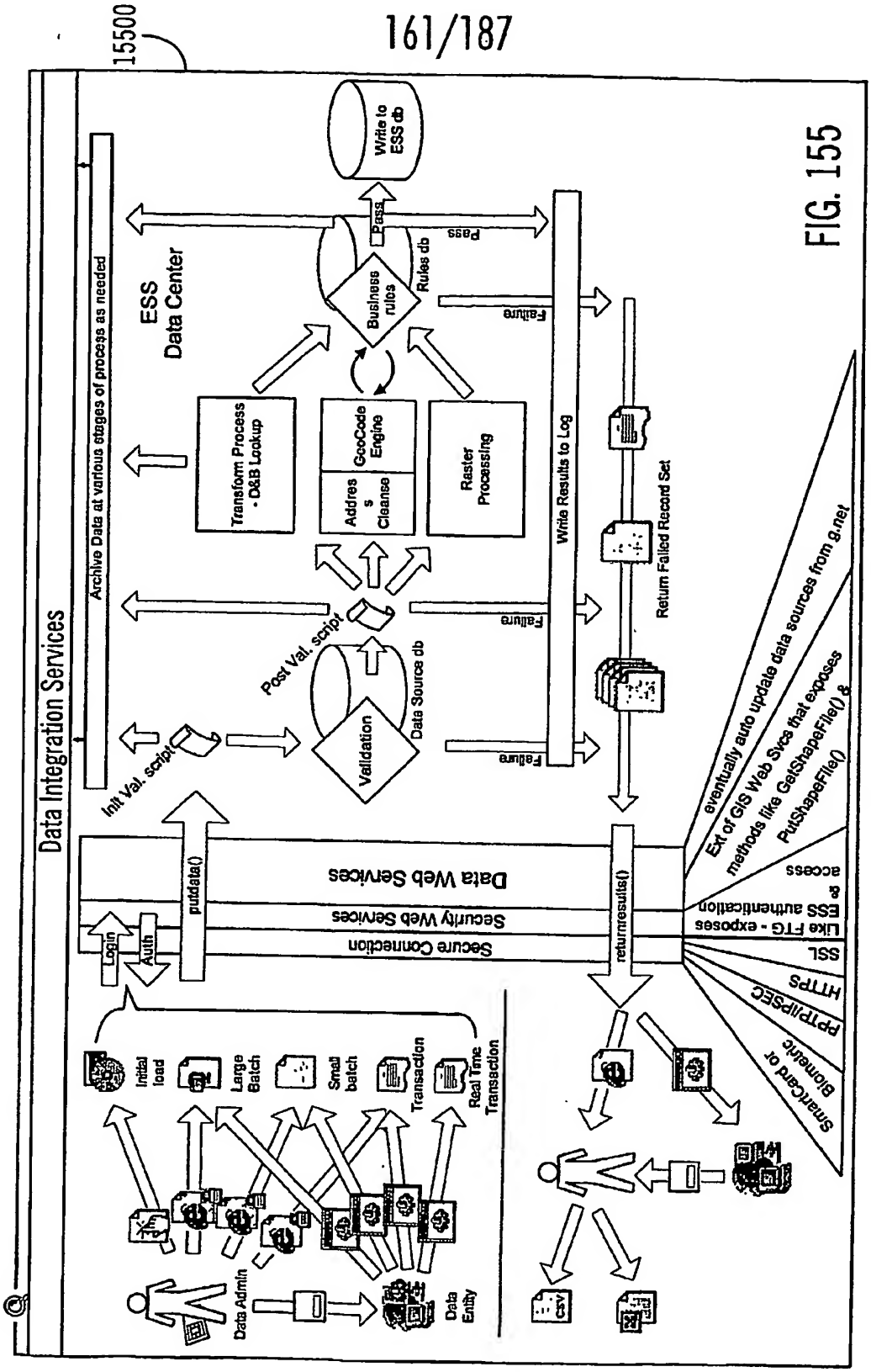

15500
Data Integration Services
Archive Data at various stages of process as needed
ESS Data Center
Write to ESS db
Pass
Business rules
Rules db
Failure
Transform Process - D&B Lookup
GeoCode Engine
Addres s Cleanse
Raster Processing
Write Results to Log
Return Failed Record Set
Post Val. script
Validation
Data Source db
Init Val. script
putdata()
Data Web Services
Security Web Services
Secure Connection
Login
Auth
returnresults()
Initial load
Large Batch
Small batch
Transaction
Real Time Transaction
Data Admin
Data Entry
csv
eventually auto update data sources from g.net
Ext of GIS Web Svcs that exposes methods like GetShapeFile() & PutShapeFile()
access
Like FTG - exposes ESS authentication
SSL
HTTPS
PPTP/IPSEC
Biometric or SmartCard

FIG. 155

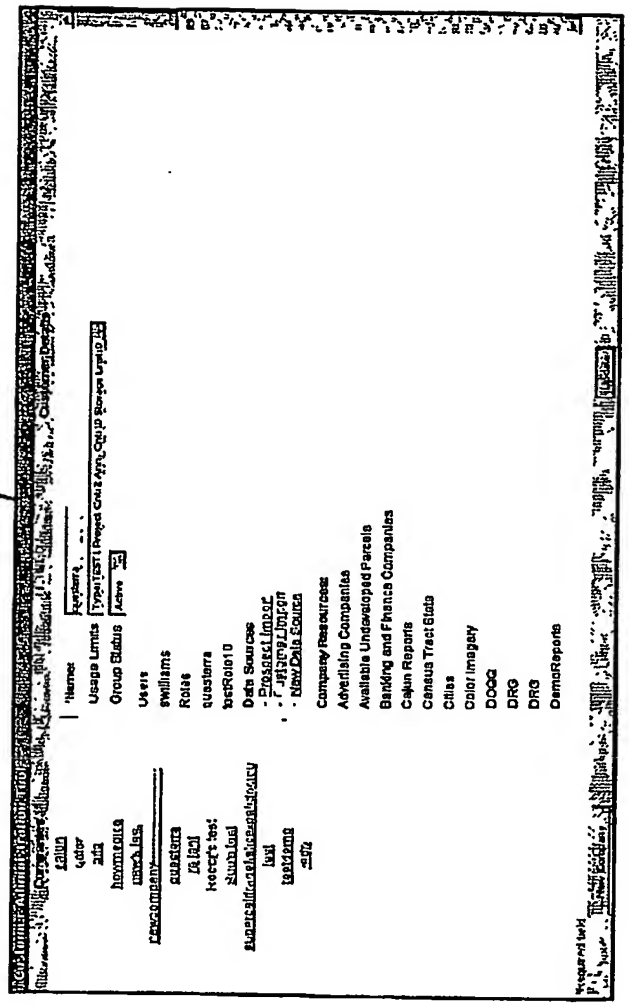

15600
Name
Usage Limits
Group Status
Users
swilliams
Roles
quasterra
testRole10
Data Sources
Company Resources
Advertising Companies
Available Undeveloped Parcels
Banking and Finance Companies
Cabin Reports
Census Tract Stats
Cities
Color Imagery
DOQ
DRG
DRG
DemoReports

FIG. 156A

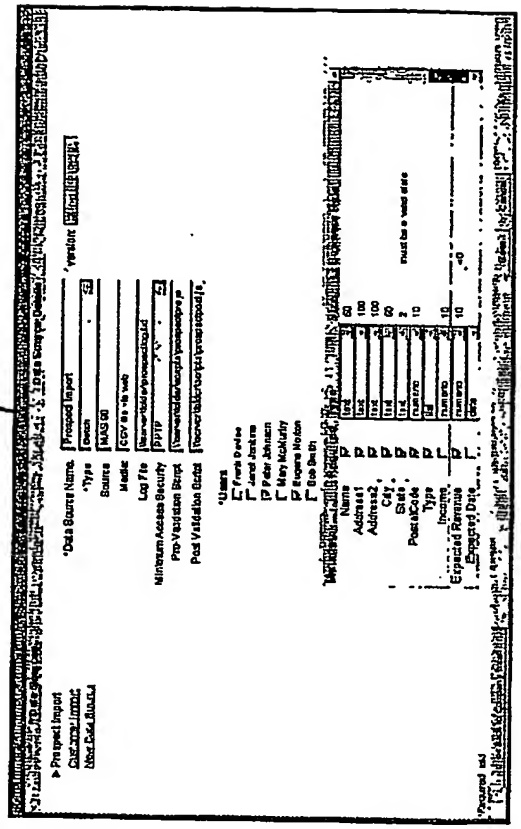


FIG. 156B

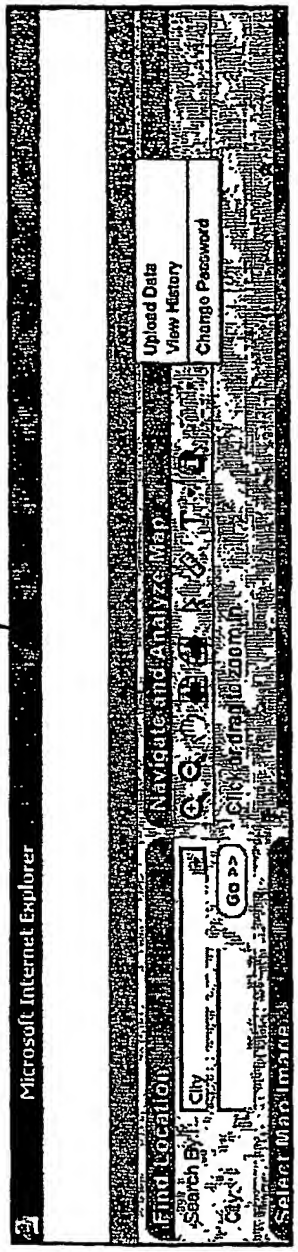

15700
Microsoft Internet Explorer
Navigate and Analyze Map
Upload Data
View History
Change Password
Find Location
Search By:
City
Go >>

FIG. 157A

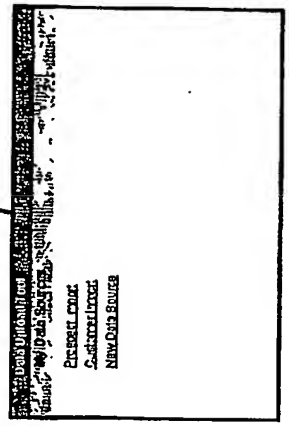


FIG. 157B

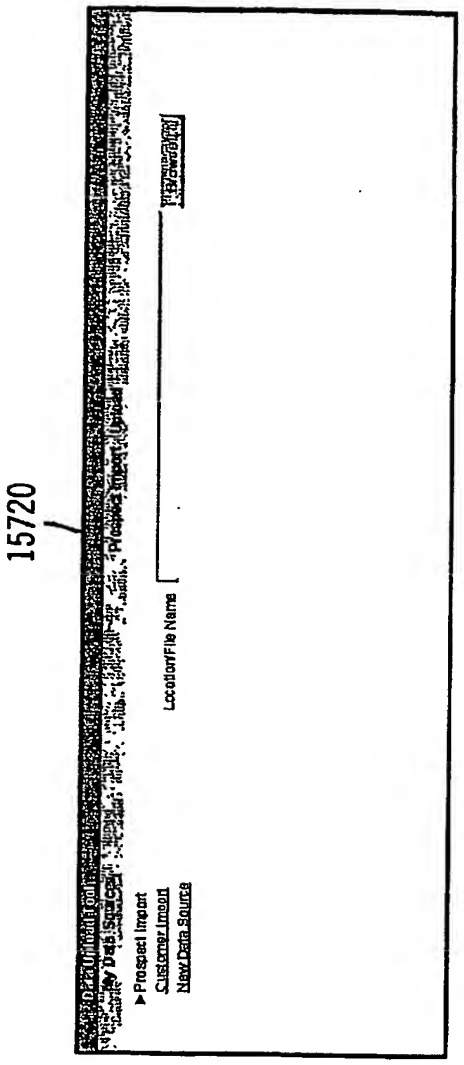

15720
Prospect Import
Customer Import
New Data Source
Location/File Name

FIG. 157C

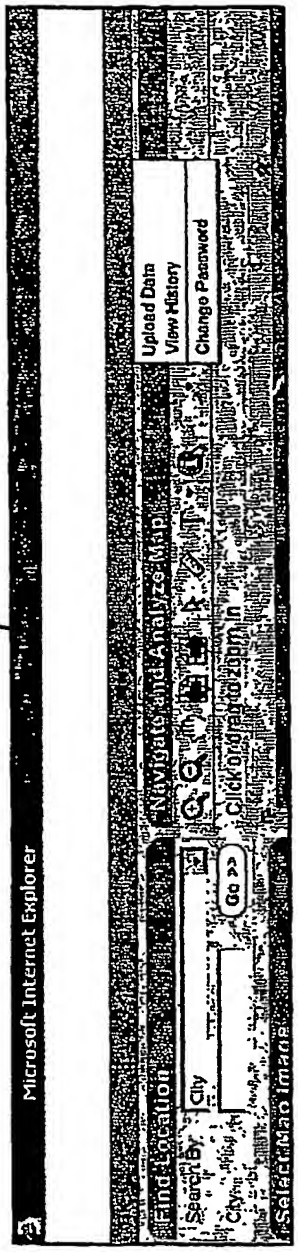

15800
Microsoft Internet Explorer
Navigate and Analyze Map
Upload Data
View History
Change Password
Find Location
Search By:
City
Go >>

FIG. 158A

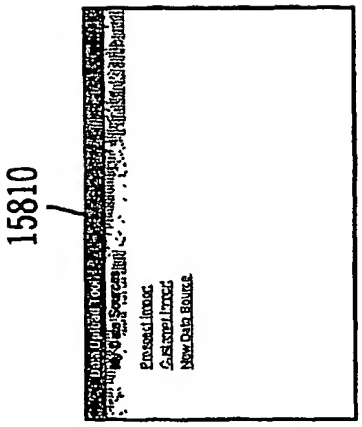


FIG. 158B

169/187

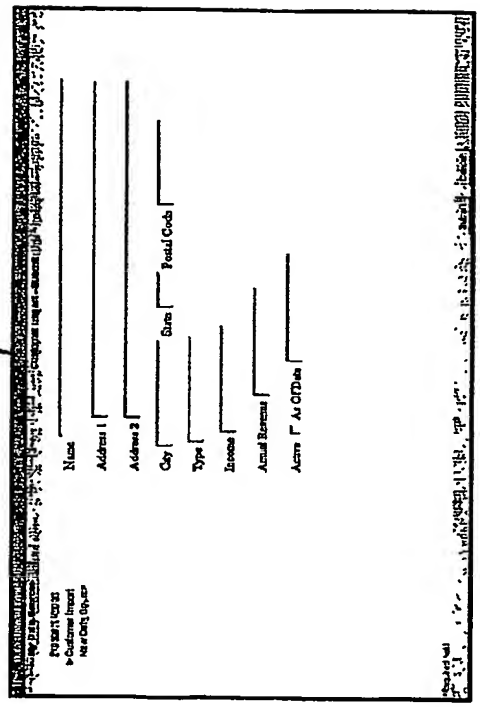


FIG. 158C

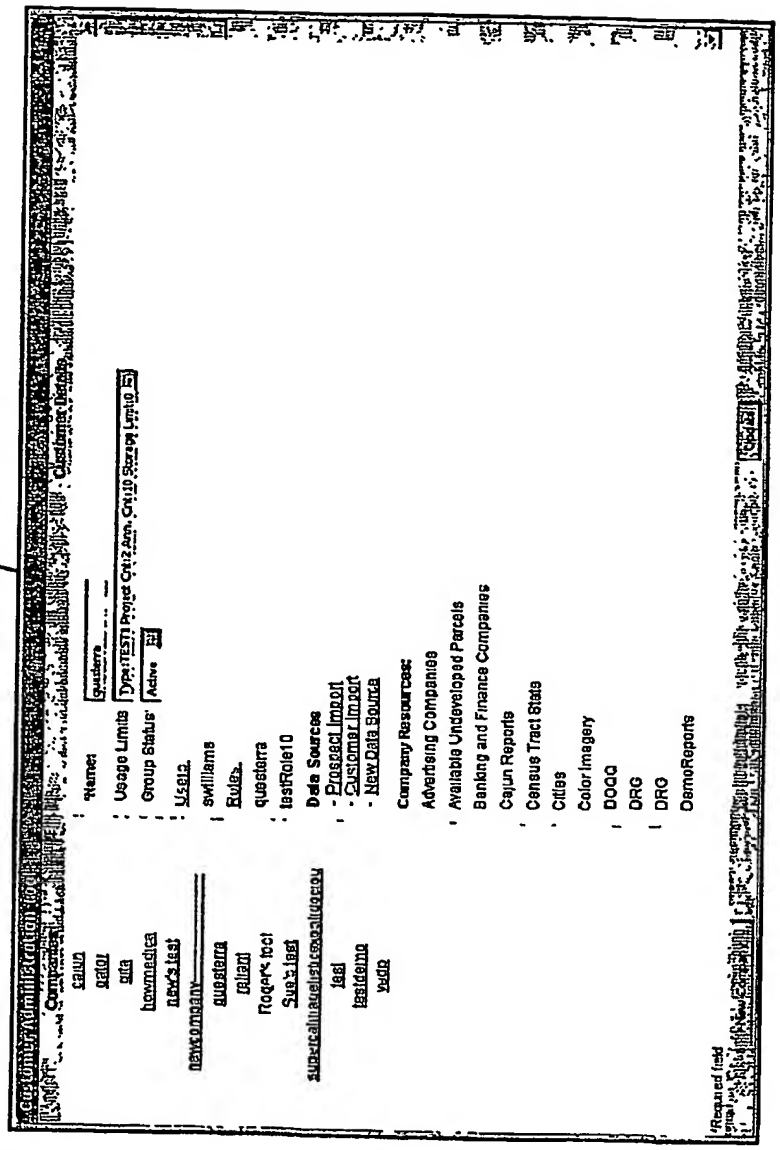

15900
Name: questerra
Usage Limits
Group Status: Active
Users
swilliams
Roles
questerra
testRole10
Data Sources
- Prospect Import
- Customs Import
- New Data Source
Company Resources:
Advertising Companies
Available Undeveloped Parcels
Banking and Finance Companies
Cajun Reports
Census Tract Stats
Cities
Color Imagery
DOQQ
DRG
DRG
DemoReports
Required field

FIG. 159

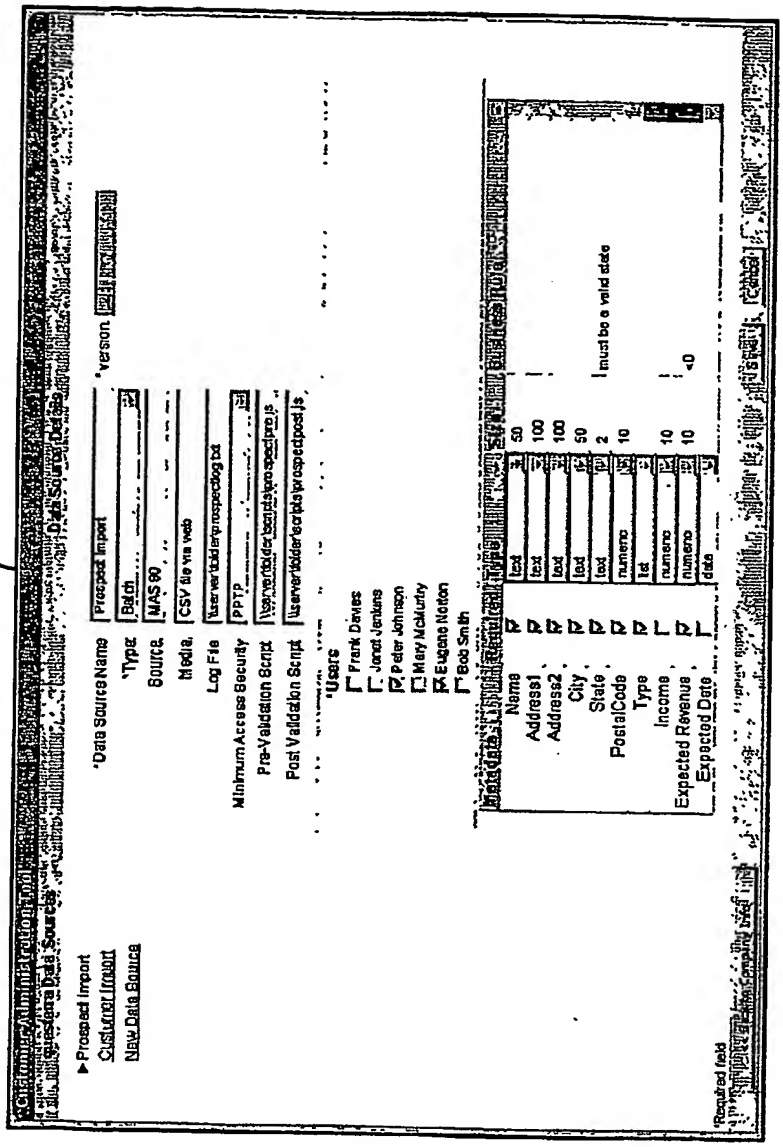

16000
Prospect Import
Customer Import
New Data Source
Data Source Name
Type
Source
Media
Log File
Minimum Access Security
Pre-Validation Script
Post Validation Script
Users
Frank Davies
Janet Jenkins
Peter Johnson
Mary McMurdy
Eugene Nolton
Bob Smith
Name
Address1
Address2
City
State
PostalCode
Type
Income
Expected Revenue
Expected Date
Required field

FIG. 160

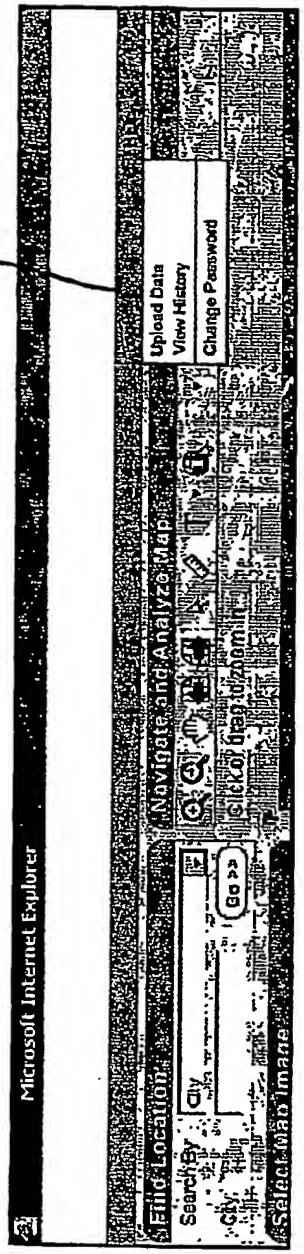

16100
Microsoft Internet Explorer
Upload Data
View History
Change Password
Navigate and Analyze Map
Find Location
Search By
City
Go >>
Click to drag to zoom
Select Map Image

FIG. 161

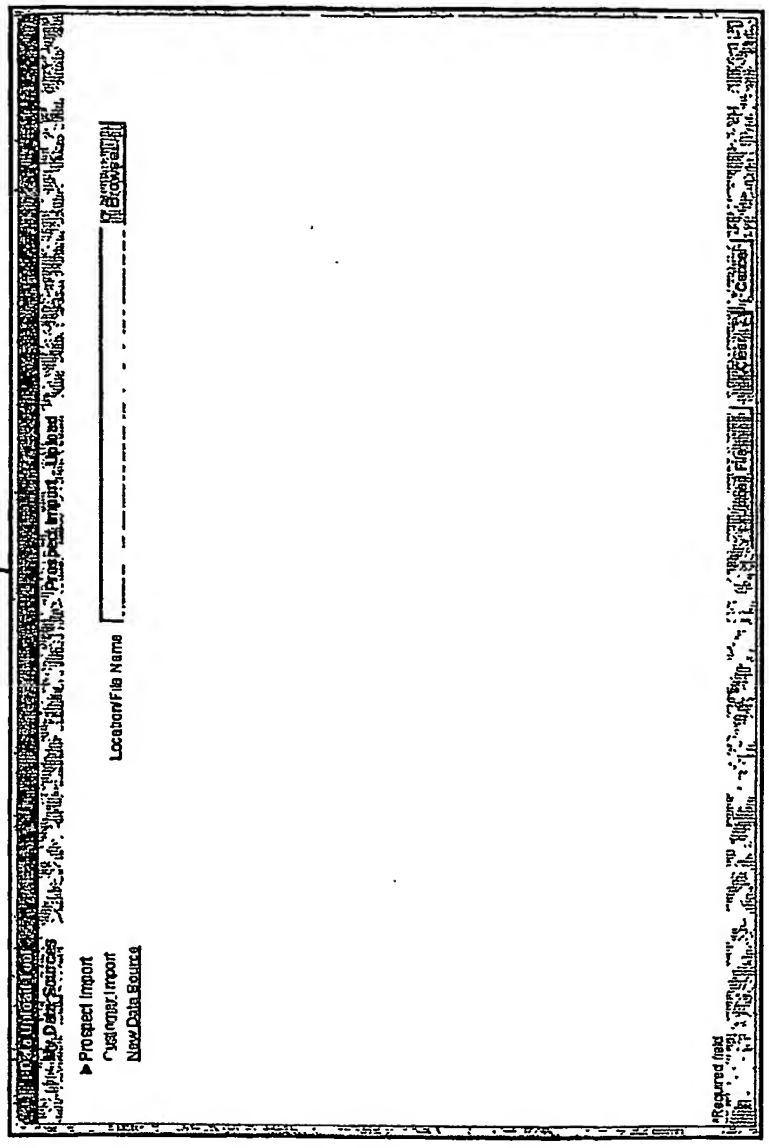

16200
Prospect Import
Customer Import
New Data Source
Location/File Name
Browse...
Required field

FIG. 162

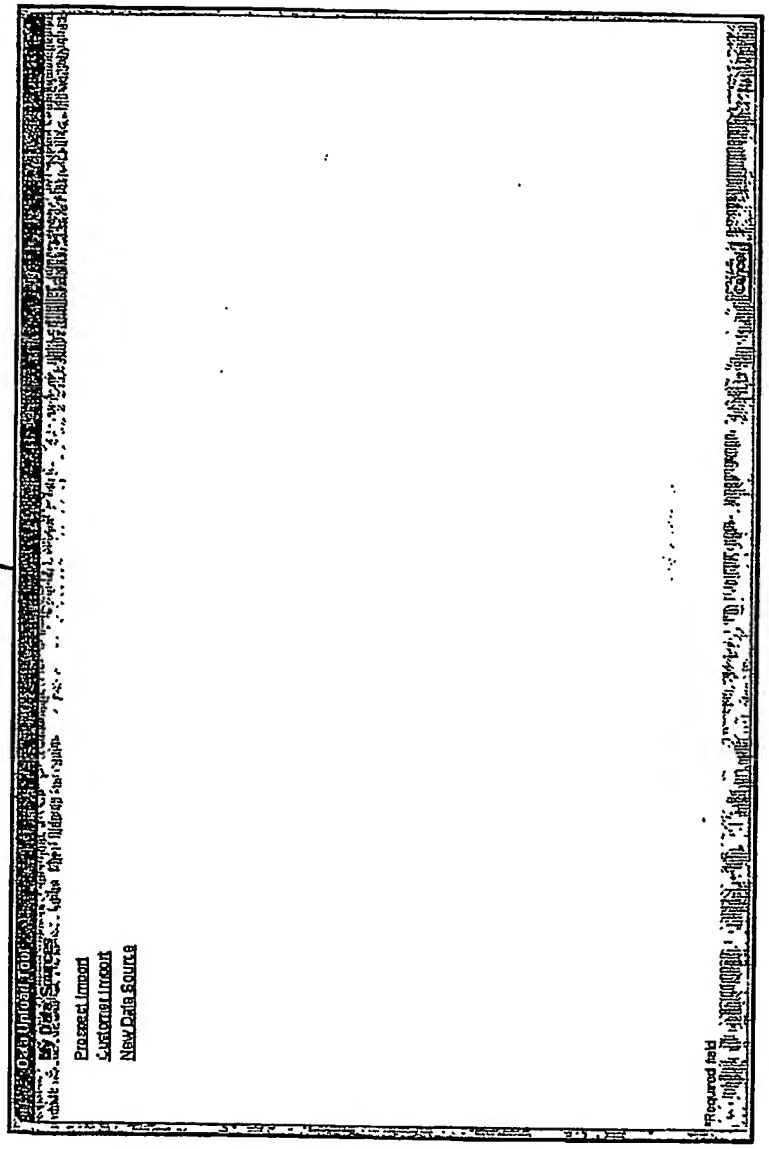


FIG. 163

16400
Prospect Import
Customer Import
New Data Source
Name
Address 1
Address 2:
City
State:
Postal Code
Type
Income
Actual Revenue
Active
As Of Date:

FIG. 164

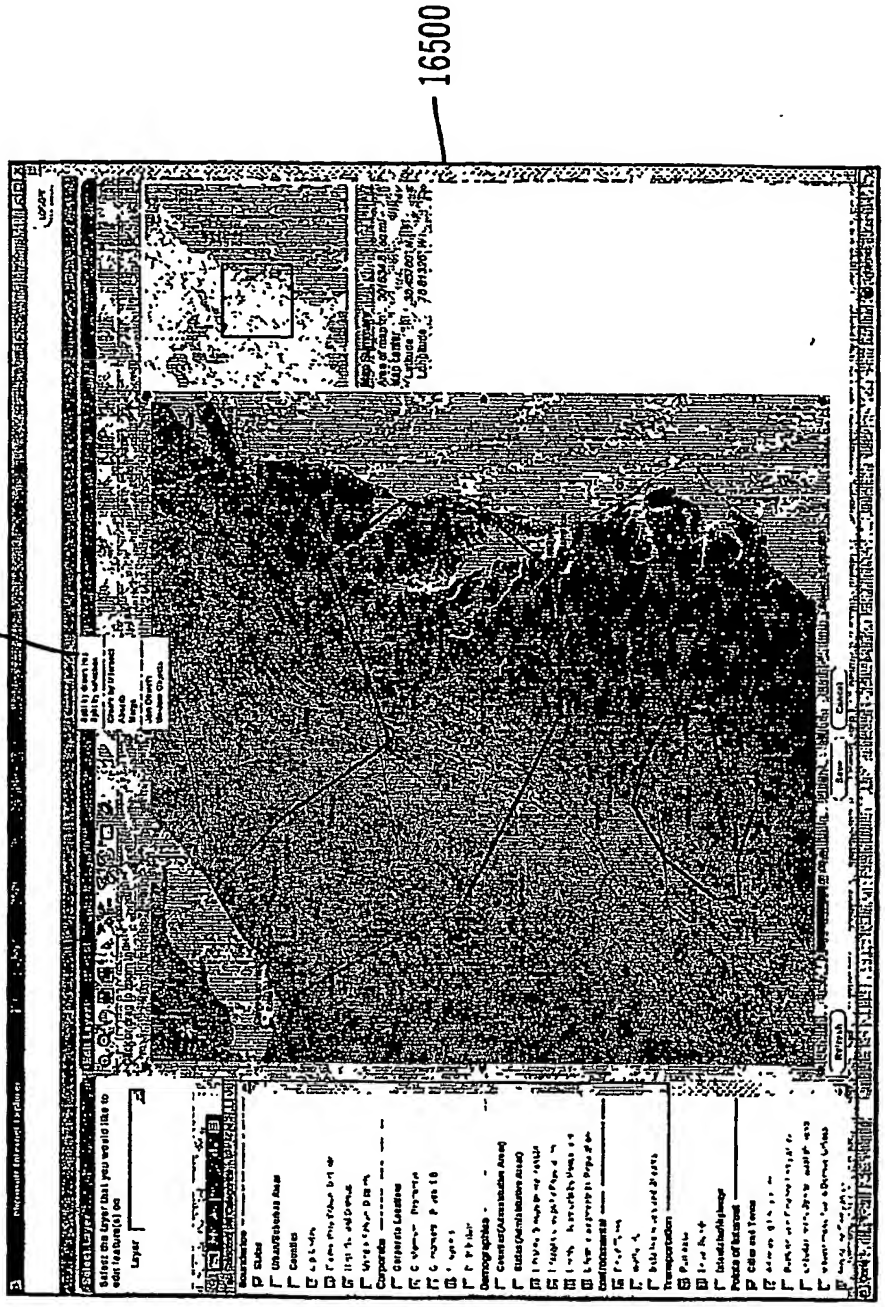


FIG. 165

16600

OPERATION	SPECIAL HANDLING	CLIENT HANDOFF	HANDOFF AT SAVE	CLIENT PROMPT	ATTRIBUTE ENTRY
ZOOM IN					
ZOOM OUT					
CLICK AND DRAG PAN					
BACK					
FORWARD					
SELECTION					
ADD VERTEX	YES		HANDOFF		
ADD OBJECT	YES	HANDOFF			SKIP
DELETE VERTEX	YES		HANDOFF		
DELETE SELECTED OBJECT	YES	HANDOFF			
MOVE VERTEX	YES		HANDOFF		
MOVE OBJECT	YES		HANDOFF		
LOAD OBJECT INTO EDIT					
LAYER					
SELECT EDIT LAYER					
EDIT ATTRIBUTES	YES	HANDOFF			SKIP
CLEAR SELECTION					
SAVE OBJECT TO EDIT LAYER	YES	HANDOFF			SKIP
SNAP TO	YES	HANDOFF			
SPLIT BY DRAWN LINE	YES	HANDOFF			SKIP
SPLIT BY SELECTION	YES	HANDOFF			SKIP
CREATE BY INTERSECT	YES	HANDOFF			SKIP
ABSORB	YES	HANDOFF			
MERGE	YES	HANDOFF			
JOIN OBJECTS	YES	HANDOFF			
UN-JOIN OBJECTS	YES	HANDOFF			SKIP
SAVE	YES	HANDOFF			
DONE/EXIT					
HELP	YES	HANDOFF			
REFRESH					
CANCEL					
MOVE TO BACK					

FIG. 166

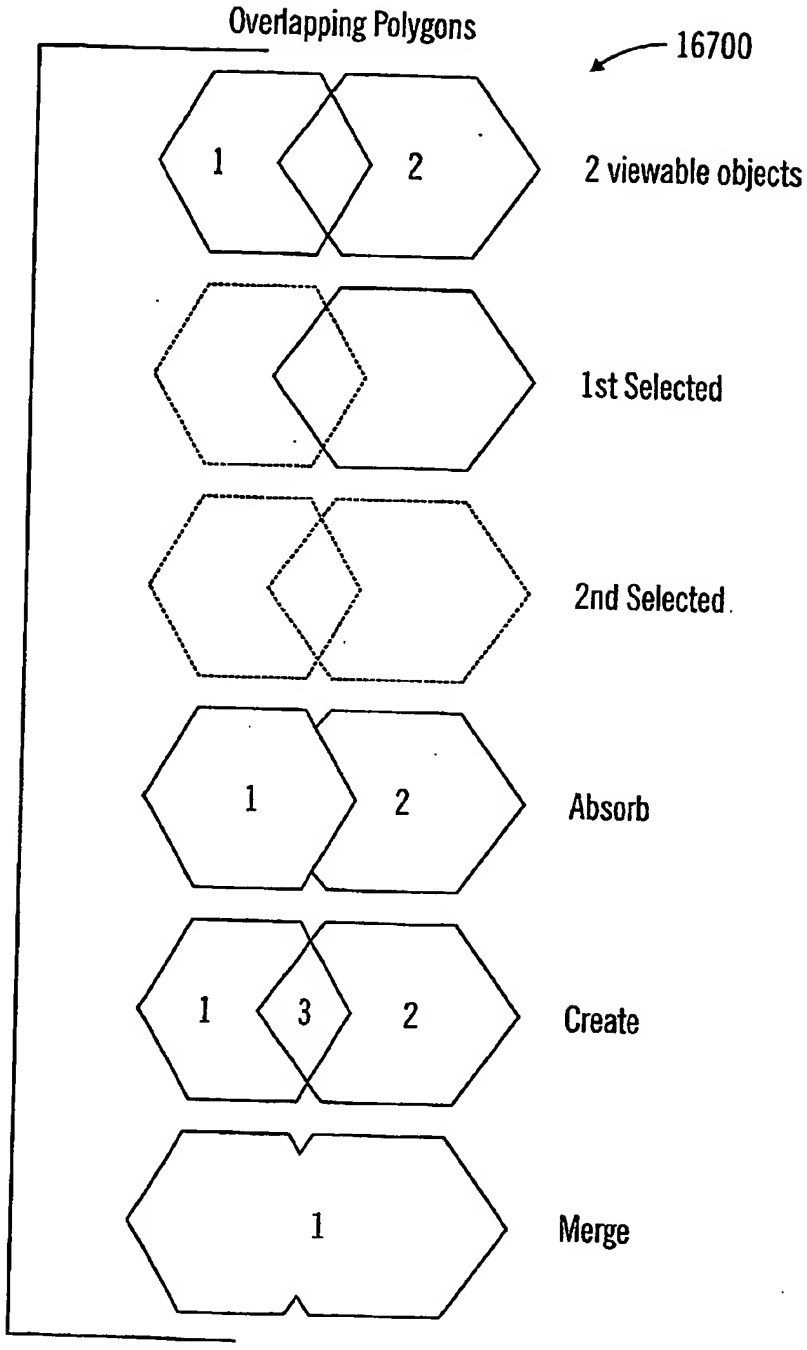

Overlapping Polygons
16700
1
2
2 viewable objects
1st Selected
2nd Selected
1
2
Absorb
1
3
2
Create
1
Merge

FIG. 167

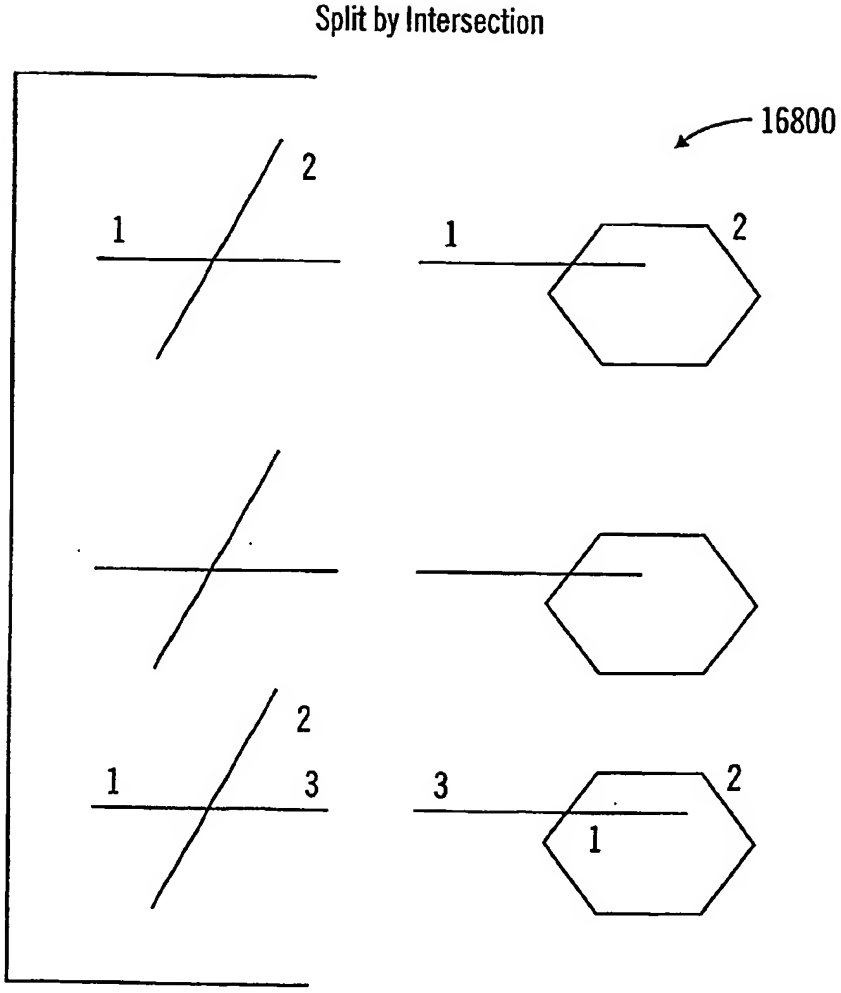


FIG. 168A

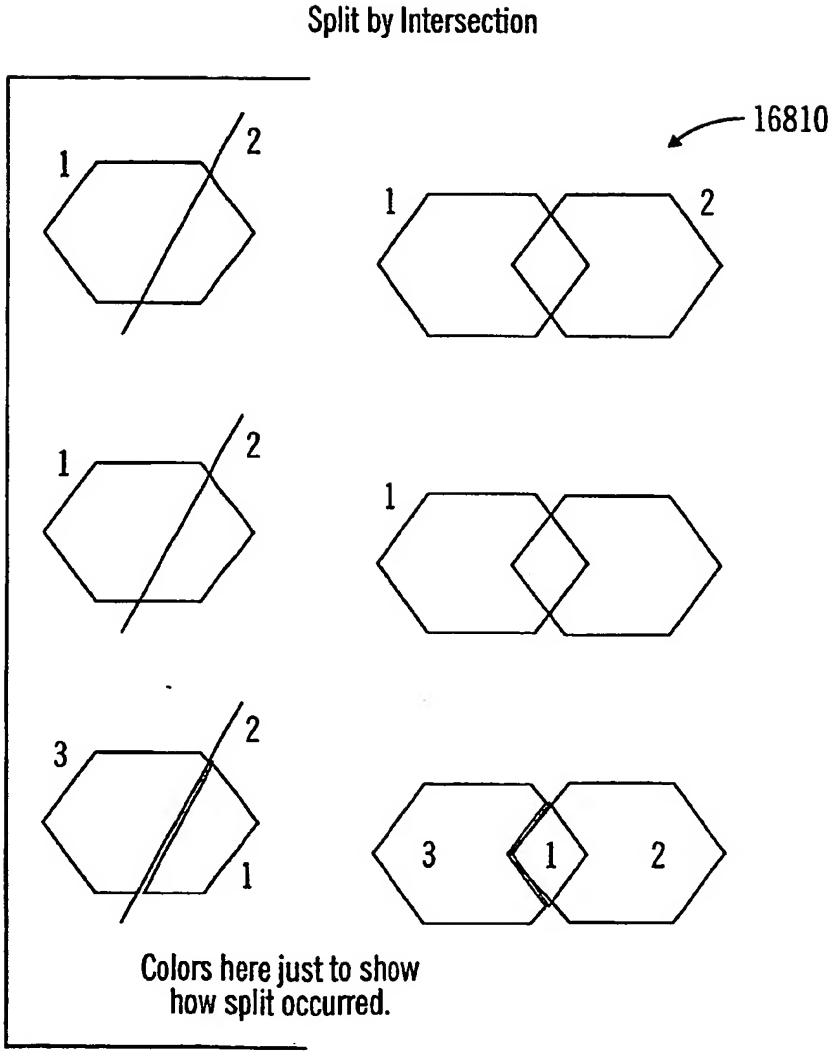

Split by Intersection
16810
1
2
1
2
1
2
1
3
2
1
3
1
2
Colors here just to show
how split occurred.

FIG. 168B

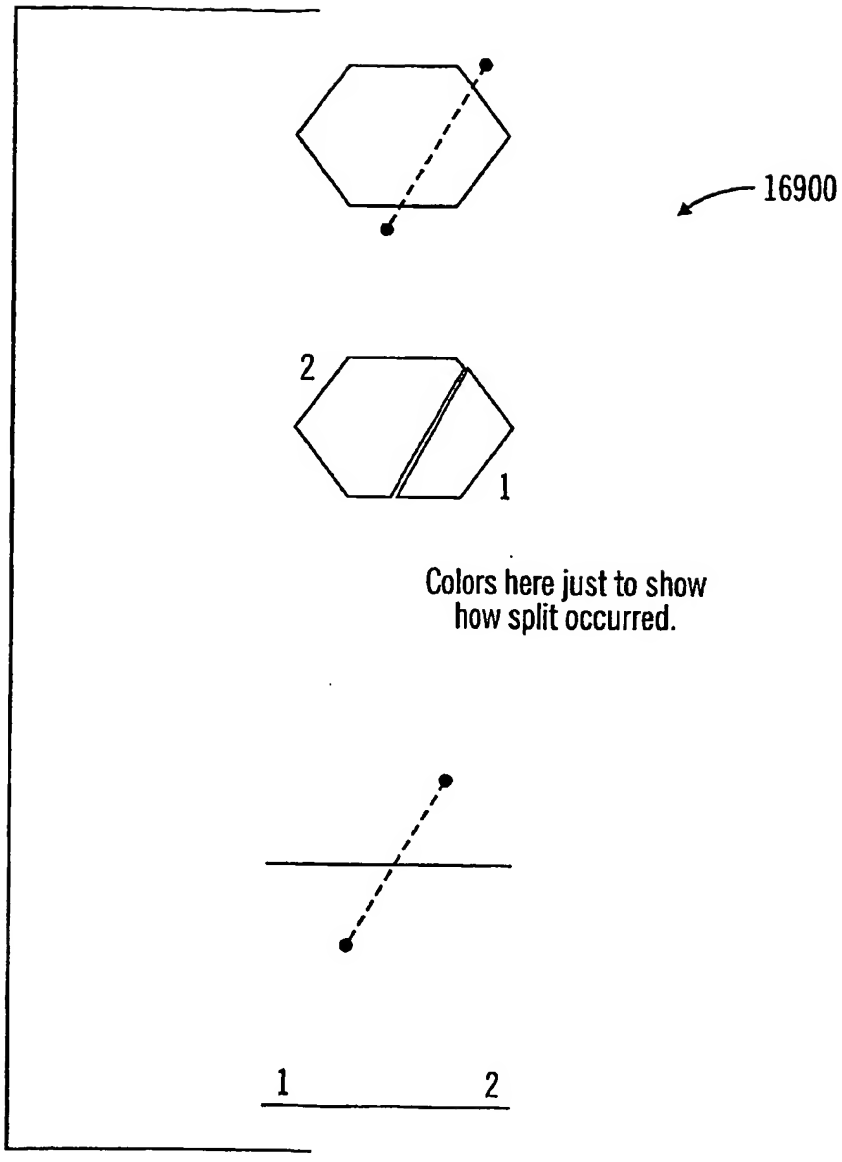


FIG. 169

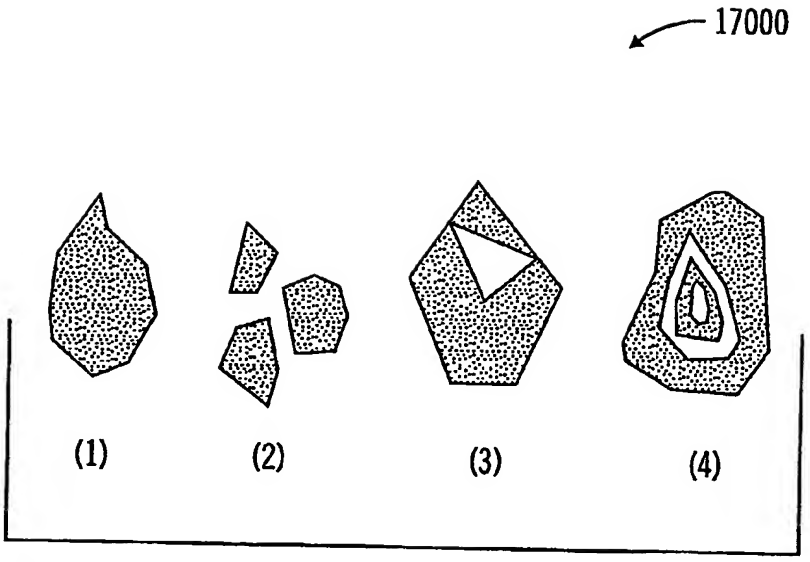


FIG. 170

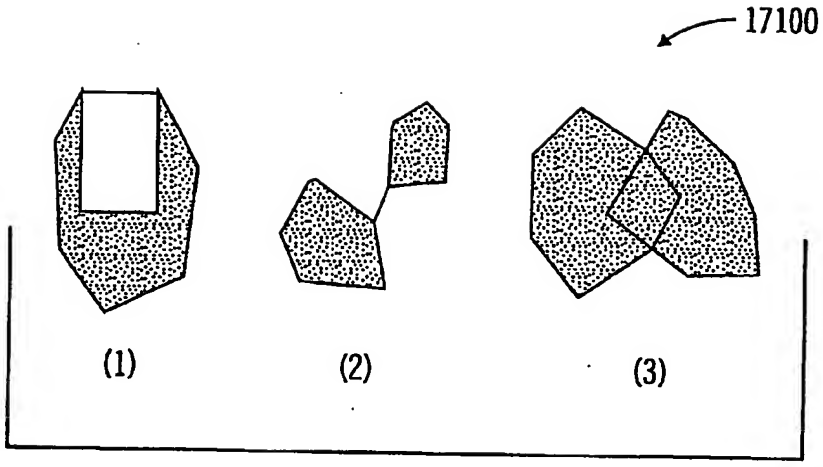


FIG. 171

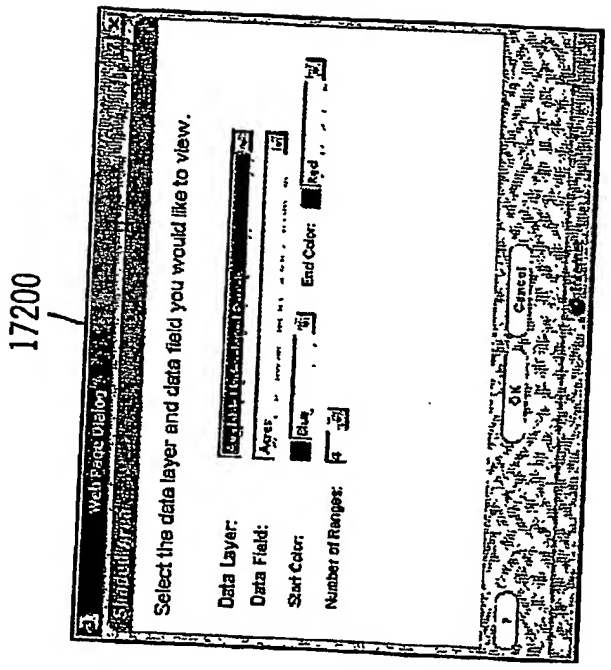

17200
Web Page Dialog
Select the data layer and data field you would like to view.
Data Layer:
Data Field:
Start Color:
End Color:
Number of Ranges:
Blue
Red
OK
Cancel

FIG. 172

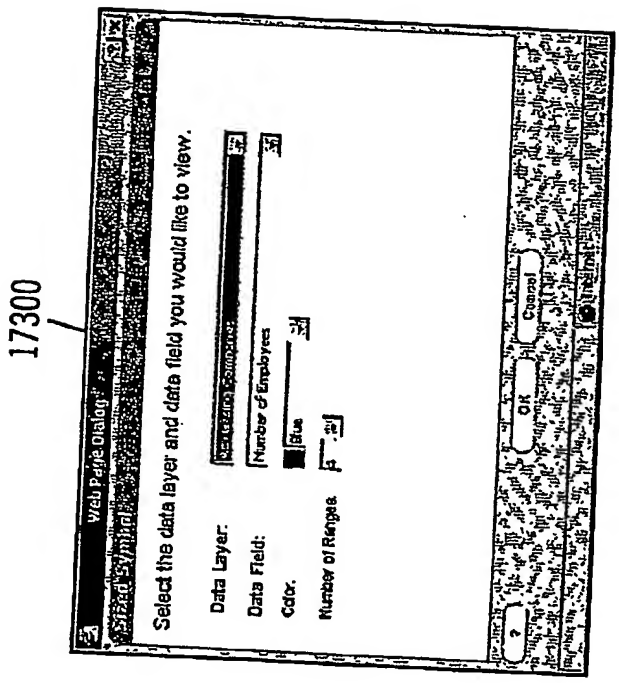

17300
Web Page Dialog
Select the data layer and data field you would like to view.
Data Layer:
Data Field:
Color:
Number of Ranges:
Number of Employees
Blue
OK
Cancel

FIG. 173

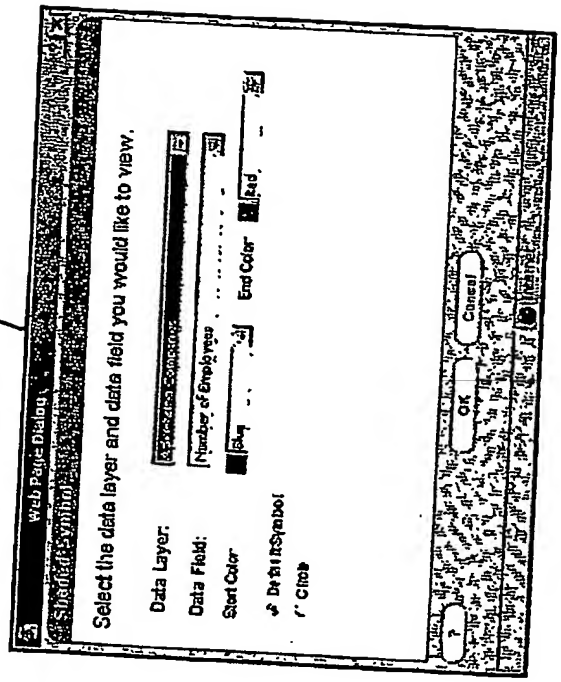

17400
Web Page Dialog
Select the data layer and data field you would like to view.
Data Layer:
Data Field:
Number of Employees
Start Color
End Color
Red
OK
Cancel

FIG. 174

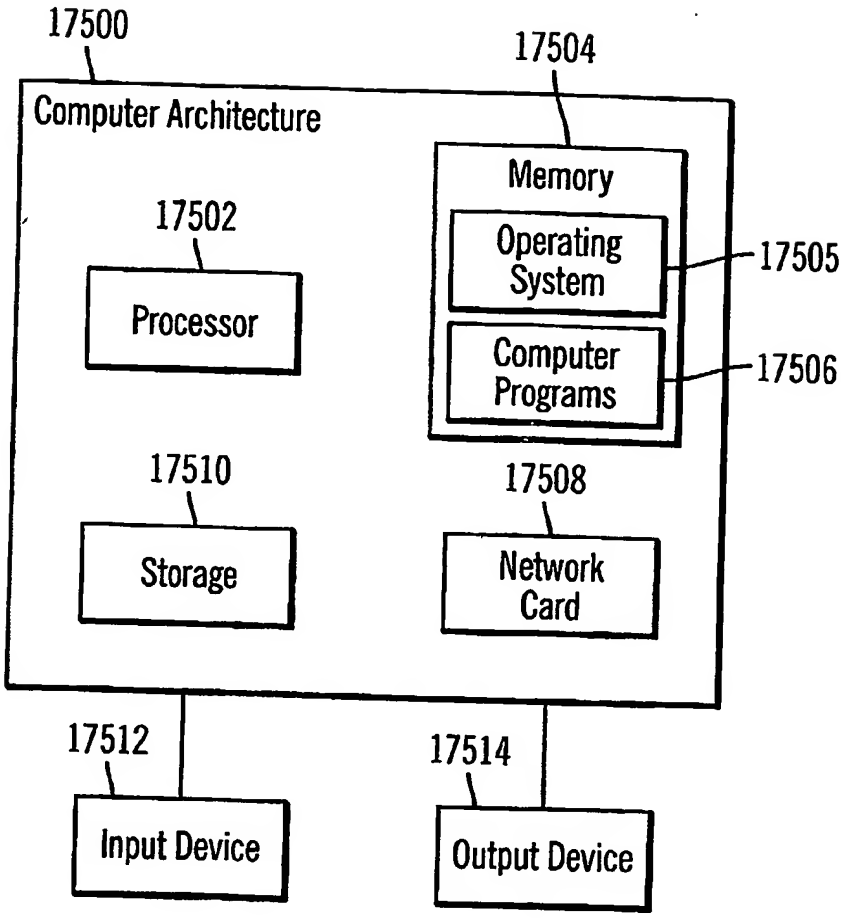

17500
Computer Architecture
17504
Memory
17502
Processor
Operating System
17505
Computer Programs
17506
17510
Storage
17508
Network Card
17512
Input Device
17514
Output Device

FIG. 175

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☑ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☑ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☑ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☑ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.
As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.